

GREEN'S FRUIT GROWER AND HOME COMPANION

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Health Hints.

A noted authority thus summarizes the uses of fruits in relieving diseased conditions of the body. It should not be understood that edible fruits exert direct medicinal effects. They simply encourage the natural processes by which the several remedial processes which they aid are brought about. Under the category of laxatives, oranges, figs, tamarinds, prunes, mulberries, dates, nectarines and plums may be included; pomegranates, cranberries, blackberries, sumach berries, dewberries, raspberries, barberries, quinces, pears, wild cherries and medlars are astringent; grapes, peaches, strawberries, whortleberries, prickly pears, black currants and melon seeds are diuretics; gooseberries, red and white currants, pumpkins and melons are refrigerants; and lemons, limes and apples are stomachic sedatives.

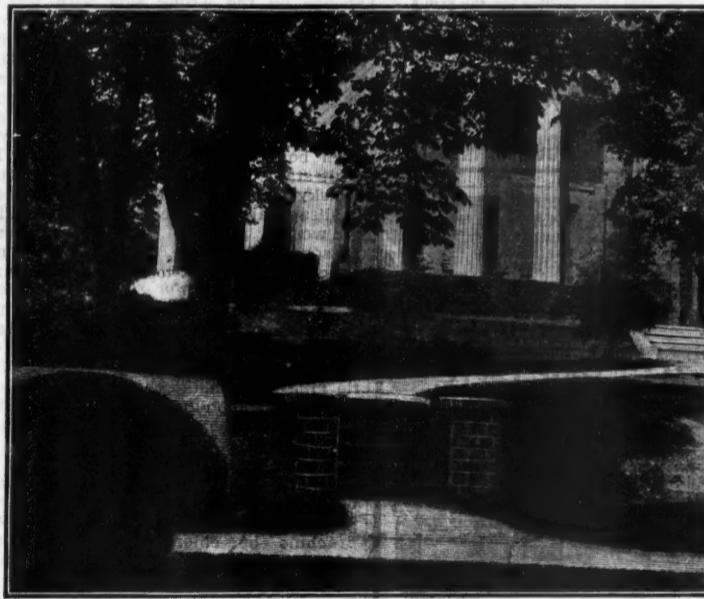
"Taken in the early morning, an orange acts very decidedly as a laxative, sometimes amounting to a purgative, and may generally be relied on. . . . Pomegranates are very astringent, and relieve relaxed throat and uvula. The bark of the root, in the form of a decoction, is a good anthelmintic, especially obnoxious to tapeworm. Figs, split open, form excellent poultices for boils, and small abscesses. Strawberries and lemons, locally applied, are of some service in the removal of tartar from teeth. . . . Apples are correctives useful in nausea, and even sea-sickness and the vomiting of pregnancy. They immediately relieve the nausea due to smoking. Bitter almonds contain hydrocyanic acid, and are useful in simple cough; but they frequently produce a sort of urticaria, or netterash. The persimmon, or "diosprys," is palatable when ripe, but the green fruit is highly astringent, containing much tannin, and is used in diarrhea and dysentery. The oil of the cocoanut has been recommended as a substitute for cod-liver oil, and is much used in Germany for phthisis. Barberries are very agreeable to fever patients in the form of a drink. Dutch medlars are astringent and not very palatable. Grapes and raisins are nutritive and demulcent, and very grateful in the sick chamber. A so-called "grape cure" has been lauded for the treatment of congestions of the liver and stomach, enlarged spleen, scrofula, tuberculosis, etc. Nothing is allowed but water and bread and several pounds of grapes per diem. Quince seeds are demulcent and astringent; boiled in water they make an excellent soothing and sedative lotion in inflammatory diseases of the eyes and eyelids."

To overload the stomach with food is not less unhealthy than to deluge it with beverages; the more nutritious the food, the more hazardous are the consequences when excess is habitual. Of all the sins of nutrition, the immoderate use of meat is certainly the most grievous. It gives to the body in a form that is favorable for easy assimilation the albumen that is absolutely necessary to life, and hence the earliest effect of its excessive use must be to surcharge the body with nutrients. The chief point here is the critical examination of what is called hunger. Many persons believe that any and every sensation of hunger must be satisfied immediately, but this is a great mistake. An equally great, if not worse, mistake is the opinion that

one must eat until a sense of satiety arises. Excessive nutrition injures the mental capabilities also. Of the particular consequences of excessive nutrition, such as hypochondria (the very name of which refers the reader to the region of the abdomen,) and the gout, it is hardly necessary to speak.—German Paper.

Give the baby and each child a bed to himself. Two single beds take but little, if any more room than one large bed. Have the sleeping room furnished with only necessary furniture. See that the clothing of the little sleeper is loose at the neck, waist and arms, and keep the head uncovered. If there is anything

cases. To avoid the danger of the retained urine setting up serious cystitis (an inflammation of the bladder,) patients can learn to use a catheter at intervals. It seems wisest in such cases to consult a surgeon at once. The catarrhal condition of the bowels may be partly due to the general irritation of the nerves. The muscular action of the intestines is sympathetic to some extent with the muscular efforts to empty neighboring organs. When some abnormal condition or retained fluid is provoking nature by resisting expulsive efforts, the intestine will act irregularly at the same time. The doctor consulted may



OLD STYLE COLONIAL HOUSE.

Many of the subscribers of Green's Fruit Grower live in such places as these. Here are hints for lawn ornamentation.

young children cannot do without it is fresh air. Through the pores of the skin the body is continually throwing off poisons vapors. If the head is covered with the bed clothing the unfortunate infant will be breathing bad air. The average child suffers from overfeeding and overdressing. Let him learn to be a trifle hungry. Do not take him for an oyster or a clam, and keep him in a stew all the time. Half the time the child cries he wants fresh air or fresh water—wiping the lips of a crying baby with cool water will often soothe and refresh him.—United States Health Report.

be able to give a remedy to regulate spasmodic efforts and also relieve the catarrh and constipation.

I have good health but slight appetite and weigh only 110 pounds, when I ought to weight 135 at the very least. Unfortunately I am not fond of sweets, and they do not agree with me. The experience of one young woman may serve as a hint. She was much too slender to satisfy her artistic ideals, so consulted the family physician. This is what he prescribed: Every hour from breakfast to dinner—that is, from 8 to 6 o'clock—she was to eat a banana and drink a cup of milk, says New York Tribune.

Please advise in my case: First, enlargement of the prostate gland; second, great difficulty in passing urine and too frequent desire—many times every half hour through the day, attended with severe stinging pain. Bowels are constipated and passages consist of hard, lumpy substance, after which a quantity of slimy matter, say a half a tea cup full at a time. I have a good appetite, and but for these troubles would be as well as ever. I am 79 years of age, and have been in active business fifty-eight years.—Subscriber.

The urinary difficulty comes from the enlargement, which interferes with complete evacuation of the bladder, replies the medical expert of New York Witness. Enlargement of the prostate is rather common in advanced years. Fairly successful operations are done in suitable

The wholesome cranberry is again with us, and should be used freely. Not only are the berries good for bilious conditions, but physicians declare that they are a preventive of grip and valuable in helping the system to ward off malarial and typhoid fevers. As a health food they should not be strained and made into a jelly, as too much of the substance is lost. Better is a sauce, where the berries will be whole and clear and the skins tender. To prepare them in this way, allow to one quart of cranberries one pint of sugar and a half-pint of water. Put all on the stove at once and cook ten minutes without stirring. Then lift the pan from the fire and let the sauce cool in the pan before pouring it in a glass dish. Let the children eat all they want of it.



Over the Snow.

Written for Green's Fruit Grower by D. A. Freeland.

Over the snow how the sleigh bells ring out,
Boys greet the sound with an answering shout.
Slow pulses quicken and faint hearts grow stout,
Over the snow.

Over the stream on an ice bridge we go,
Hark! how the brooklet is gurgling below;
Runners make music as creaking they go,
Over the snow.

Over the snow with a sweetheart, such bliss!
Rollicking song, and a laugh and a kiss,
What can the tropics give equal to this?
Over the snow.

For nervous headache bathe the back of the neck with hot water.

Tincture of arnica is the best application for sprains or bruises.

For a cold in the head try snuffing powdered borax up the nostrils.

Lime water and sweet oil applied immediately will take the pain from a burn.

Snuffing tannin is one of the best remedies for a serious case of bleeding at the nose.

For neuralgia try wet cloths of alcohol or water, or paregoric, or laudanum and water, laid on a hot water bottle and the part steamed over it.

One of the best remedies for a disturbed digestion is hot water, to which has been added salt and paprika. Certainly there is no question that salt is a very valuable constituent of food.

Condiments generally, and especially salt and pepper, have a real and distinct value, outside their use in bringing out the flavor of the food to which they have been added.

The Chicago "Tribune" points out that in eastern countries the condiments such as pepper are used to profusion in all foods. Gastric troubles common enough in other countries are conspicuously absent, and the free use of pepper has much to do with the fact. Salt and pepper work against fermentation.

A celebrated physician has claimed in one of his lectures that the best remedy for nose bleed is a vigorous motion of the jaws, as in the act of chewing. In the case of a child, he recommends giving a wad of paper to chew, as the rapid working of the jaws stops the flow of blood; but why not try chewing gum instead of paper?

"The milk of human kindness should be allowed to stand over night in order to prove its quality."

"The majority of women spend their time in straining at the family tie in order to prove its strength."

It is believed by some that the time is not far distant when an honest man will actually command respect.

There is a mysterious game called "love in the dark." The mystery is due to the fact that young people who play it are inclined to be close-mouthed.—Chicago News.

Eggs and Toast—Eggs are composed of about 73.5 water, 14.9 protein (strength giving material), 1.0 mineral matter, and 10.6 fat. The white of an egg is almost pure albumen and water; if eaten raw, it is assimilated nearly as it is. Eggs should never be cooked in boiling water, as the white coagulates, or becomes firm, at a very low temperature. The boiling water renders it tough and leathery, making it hard to digest.

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Our patrons are extremely well pleased with the Doll we send to the Standard Jewelry Co., Boston, Mass.

Gentlemen—I beg to acknowledge receipt of Doll shipped via Express. It arrived on the afternoon before Christmas, and was more pleased with it; it is far more beautiful than that which you sent me. I am glad to know that there are still some honest men who will follow out what they promise. Many of the ads. in the papers are "fakes," but yours was not. I thank you for the prompt manner in which you sent me the \$3.00. Wishing you a Happy and prosperous New Year for 1902, I remain, yours respectfully,

Mrs. A. Ray, New Orleans, La., writes: "I have received your handsome doll in good order. I am very proud of it."

Mrs. Gertrude Balter, Locke's Mills, Mich., writes: "The Beautiful Doll received and much pleased with it. It is much handsomer than I expected."

John B. Mills, Rochester, N. Y., writes: "Doll received this p. m. all right. I think it lovely. It well paid me for my work."

Mrs. F. Cosen, Jacoby, La., writes: "I am more than delighted over the Doll you have sent me. My little girl's friends all want one."

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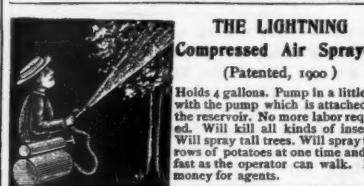
Mail Box Tests.

Tender hearted men should not serve on the committee. Each member should be furnished with a heavy club and a dose of nerve tonic. Before knocking the samples all over the hall, instruct janitors where to ship the remains of those that fall. If there is more than one survivor, it is a sign you are not hard hitters.

Write to-day for description and prices.

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Please mention Green's Fruit Grower.

The above illustration gives a suggestion for planting borders of home grounds, leaving the center open lawn. Send for our ornamental catalogue, beautifully illustrated. We have a surplus of many kinds of ornamental shrubs and shall be glad to make prices if you will submit a list of your wants.

GREEN'S NURSERY CO.,
Rochester, N. Y.

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C. A. Green has an entertainment which may be easily prepared and given anywhere, which represents the "Peace Conference of The Hague," representing the kings, queens or rulers of the nations of the earth on the stage at once, each one having a little speech to make on the subject of peace between the nations. Price of this entertainment is 25 cents post paid. Address, Chas. A. Green, Rochester, N. Y.

WINTER.

O. Winter, let your frosty winds hard blow,
And bind the flowing streams with icy chains.
We sleep to-night behind thick window panes,
And do not fear your blasts and fleecy snow.

SPRING.

The gentle rains and higher Sun's warm glow,
And fragrant fields proclaim that Spring now reigns.
The bearding wheat foretells large harvest gains,
And with each passing breeze sways to and fro.

SUMMER.

The happy Summer days have come at last,
When all the world is decked in colors bright.
And gorgeous blooms exhale their perfumes sweet.
The clear Autumnal days glide by so fast,
That we almost forget Time's hurried flight,
Till frost and snow again obstruct our feet.
Written for Green's Fruit Grower by Charles D. Welch, Lynn, Mass.

Suggestions for Cleaning and Renovating.

Written for Green's Fruit Grower by E. B. Parker.

Benzine is one of the best for cleaning all fabrics; but it should be handled very carefully and never used in a warm room. Where the color has been removed from any material, it may sometimes be restored by wetting with ammonia, particularly if the discoloration is due to acid. Both camphor and borax are good, and strong beer is recommended. A solution of logwood chips will restore the color to black woolen goods. Silk may be cleaned by spreading on a table, and sponging both sides with warm water mixed with beef gall. Then sponge on the wrong side with warm water in which is dissolved a little gum arabic. Be careful not to get too stiff. Partially dry the silk, wrap in a damp cloth, let it stay several hours, then press on the wrong side with a moderately hot iron. Silk may also be cleaned by sponging with water in which potatoes have been boiled; add a little ammonia. If fruit stains on silk or wool are wet with whisky before they dry they will entirely disappear. An excellent erasive fluid for woolen goods is made as follows: Dissolve half a bar of resin soap, one ounce of saltpetre, one ounce of borax, in four quarts of soft water. When cool, add five ounces of spirits of ammonia and two of chloroform. To wash black cassimere, dissolve two ounces of borax to every gallon of water, add a little mild soap; make the rinse very blue and press while damp on the wrong side. To renew shabby black kid gloves, mix a few drops of ink or shoe polish in a tablespoonful of olive oil, in which a piece of gum arabic the size of a pea had been dissolved. Ink stains may be removed from silk or wool by using two drachms of chloride of lime, two drachms of acetic acid and one and one-half ounces of water.

Ben Davis Apple.

Professor E. S. Goff, in the Wisconsin Horticulturist, says: What would we have done this season without the Ben Davis? Probably three-fourths of the apples that have come to the Madison market since November have been of this variety; and only this variety has been sold at a price that a poor man could afford to pay. And with the exception of a few apples of other varieties that have sold at the rate of above \$7 per barrel, I have been able to find no apples good of their kind except the stigmatized Ben Davis. There is an old proverb—"Speak well of the bridge that carries you safely over"—that will apply pretty well here. Whatever may be said against the Ben Davis it "gets there," and we can have apples when, except for it, most of us would have had to do without.

Damp or cold houses are generally the cause of the hens having the roup.

The best way to lift a mortgage is to raise larger crops on fewer acres.

There is money in fowls when handled with reasonable care, but if left to shift for themselves in filthy quarters they are generally kept at an actual loss.

President Roosevelt is to be commended for his demand for long-tailed horses for use in his carriage. It may be that his manly rebuke of the unmanly custom of docking horses may be effective in changing a cruel and senseless fashion.

The farmer should make a larger use of the succulent foods, especially grass, rape, clover, pumpkins, potatoes and unmarketable apples during the summer and all seasons for his brood sows and depend mainly on corn for finishing his hogs for market.

FREE--ASTHMA CURE.

A New and Positive Cure for Asthma has been found in the Kola Plant, a rare botanical product of West African origin. So great are the powers of this New Remedy that in the short time since its discovery it has come into almost universal use in the Hospitals of Europe and America for the cure of every form of Asthma. The cures wrought by it are really marvelous. Among others, Rev. J. L. Combs of Martinsburg, West Va., was cured of Asthma of thirty years' standing, and Mr. Alfred Lewis, the editor of the Farmer's Magazine, of Washington, D. C., testifies that after eight years' continuous suffering, especially in Hay-fever season, the Kola Plant completely cured him. He was so bad that he could not lie down, night or day, for fear of choking. After eighteen years' suffering from the worst form of Asthma, Mrs. Maggie Ross, 814 Madison Ave., Indianapolis, Ind., writes that the Kola Plant completely cured her. Rev. S. H. Elsenberg, Centre Hall, Pa.; Rev. John L. Moore, Alice S. C.; Mr. Frank C. Newall, of the Market National Bank, Boston, and many others, give similar testimony of their cure of Asthma, after five to twenty years' suffering, by this wonderful new remedy. If you suffer from Asthma in any form, in order to prove the power of this new botanical discovery, we will send you one Large Case by Mail entirely free. All that we request in return is that when cured yourself you will tell your neighbors about it. It costs you absolutely nothing. Send your address to The Kola Importing Company, 1144 Broadway, New York City.

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I breed fine poultry on one of the best equipped poultry farms in the world. Send 2c in stamps for new 1901 book, telling all about 50 varieties, with special price list for each. **B. H. CREIDER, Florin, Pa.**

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Practical Poultry Pointers.

Never feed the poultry near the dwelling or throw out scraps of any kind to attract them near the house.

One of the secrets of success with poultry is not to keep any unprofitable birds; sell them as soon as possible.

As long as a really good hen is not too old to lay eggs, she is not too old to keep.

Forty hens can no more eat from one plant than 40 people. Broadcast the grain and provide long troughs for feeding soft food.

Buckwheat straw is very good for scratching material.

The roosts should be low, especially for the heavy breeds.

Keep the lice off your fowls and they will keep healthy.

Feed plenty of meat scraps if you want to get lots of eggs.

Keep plenty of fresh water where your fowls can get it.

A pale yolk is not an indication of poor quality in an egg.

Beware of drafts at night and you will prevent much sickness.

If you can secure milk to mix with your mash it will be profitable.

Don't keep a drug store for your poultry. They will do a great deal better if left alone than to be compelled to take drugs, teas and all sorts of condition powders. Doctor only when sickness appears.

If you are going to begin breeding fancy poultry, plan your work at once. Commence on a small scale and work up.

Don't move a hen you wish to sit to a new location in daylight.

Don't be rough with a broody hen. Kindness prevents disaster.

There is only one way of making poultry mature early, and that is to keep them growing.

Indigestion in fowls is often the result of change of food, the fowls eating too much and too rapidly.

Crowded hens cannot do as well on egg production as hens that are not crowded.

Charred bone, as well as charred corn, is good for poultry.

Give the hens all of the buttermilk and skim milk they will drink.

Milk is a great egg food, as it is chemically similar to the white of an egg. — New York Farmer.

"Alas! my Child, where is the Pen That can do justice to the Hen? Like Royalty, she goes her way Laying foundations every day, Though not for Public Buildings, yet For Custard, Cake and Omelette. Or if too old for such a use They have their Fling at some Abuse. As when to Censure Plays Unfit Upon the Stage to make a Hit, Or at Elections Seal the Fate Of an Obnoxious Candidate. No wonder, Child, we prize the Hen, Whose Egg is Mightier than the Pen." — Oliver Hereford.

BARREL COOPS FOR CHICKS

The above cut represents chicken coops made of old barrels covered with boards to keep out the sun and rain. These are inexpensive coops to be used only when the chickens are small.

EGGS

This is a season when our patrons are ordering eggs for hatching. Above cut shows how eggs are packed for shipment. Eggs can be shipped in packages like this any distance safely. If the package is misused by the express company, the party ordering the eggs should not accept them, but should hold the express company responsible.

Hear the sledges with the bells—

Silver bells—

What a world of merriment their melody foretells?

How they tinkle, tinkle, tinkle,

In the icy air of night!

While the stars that oversprinkle,

All the heavens seem to twinkle

With crystalline delight,

Keeping time, time, time,

In a sort of runic rhyme,

To the tintinnabulation that so musically wells

From the bells, bells, bells, bells,

Bells, bells, bells,

From the jingling and the tinkling of the bells.

Poe.

Fruit Growing and Poultry.

T. R. Jennings, in Climate and Crops, says: "Many farmers are so situated that they can engage in two branches of light farming to considerable advantage.

With a proper arrangement of buildings and yards it is quite possible to make poultry raising and fruit growing combine profitably, and to do so as well, with less expense, as with any branch of straight farming in connection with poultry raising. If small fruits are grown extensively it will be necessary, of course, to keep the poultry yards at some distance from the fruit plantation, but where orchard fruits are grown considerable saving can be effected by building at least a portion of the poultry yards in the orchards. It is not a good plan to build the houses in the orchards, but some portion of the ground devoted to runs should extend under the trees.

This arrangement gives the fowls considerable shade without any detriment to the orchard. When arranged in this manner, especially if the orchard is young, the ground between the rows can still be cultivated to advantage. In no case should the cultivation of the orchard be sacrificed. The advantage of this combination lies in the fact that the fruit can be cared for at a time when the poultry requires but little attention. Farmers who are inclined to give up the heavier branches of farming for any reason should look into the possibilities of obtaining a good living from fruit culture combined with poultry raising."

The American hen laid last year a total of 10,000,000,000 eggs. The total value, at an average of 16 cents a dozen was \$138,000,000. The hen's earnings were greater than those of the entire postal system. The sum realized would have paid the expenses of the entire war department. The total weight of the eggs laid last year was more than 1,000,000,000 pounds. If the eggs were equally divided among the inhabitants of the country each human being would get 141. The number of chickens in the United States is estimated at 284,000,000.

Good profits can be made from poultry if one will but give them the proper care and attention. A New York school teacher, broken down in health, started with 50 hens and had 400 at the end of the year. He gave his entire time and attention to the business, and in one particular month marketed \$90 worth of eggs, receiving 18 cents per dozen. He gradually got a few thoroughbreds and in four years built up a business paying \$4,000 a year, part on thoroughbreds and part on market poultry and eggs.

Don't feed mash in the morning if you expect your eggs to be very fertile. Don't feed very extensively to your breeders either morning or evening. Don't let your hens get fat and lazy if you want their eggs to hatch well. Don't feed animals meal too often. Don't monkey with red pepper or other hot nostrums except in special cases, and then rarely. Don't go in very strongly for rich, spicy poultry foods, that you pay two or three prices for. Don't feed anything but fresh, wholesome grains and vegetables, with occasional entries of green bone or animal meal.

One important item in the hog's bill of fare is plenty of good, pure drinking water.

MADE HENS LAY

No, this is not a puzzle. Placed in line these figures read 342. That is just the number of first premiums taken by the

Every Chicken Man Needs

a green bone cutter.

The Adam

alone is ball bearing, it cleans itself, it cannot become clogged or choked, it is fed at the pleasure of the operator. You will want to know of it. Send for our Illustrated Catalogue No. 10, before you buy. Sent Free.

W. J. ADAM, Joliet, Ill.

\$20 WEEKLY straight salary and expenses to men with rigs to advertise & introduce Poultry Compound. Send stamp Royal Co-Op. Mfg. Co., Dept. V, Indianapolis, Indiana.

\$5 INCUBATORS FREE 2000 SIZE
Self-regulating. Guaranteed for 2 years. Hatches every good egg. Send for catalog No. 62. Send six and get one free.

INVINCIBLE HATCHER CO.

SPRINGFIELD, OHIO.

BUFF ORPINGTON EGGS Buff, Wh. and Barred P. Rocks; Buff, Wh. and B. Leghorns; Buff, Wh. and Lace Wyandottes; I. Games; Minorcas, Brahma, Ducks. EGGS—\$1.00 for 13, \$6.00 for 100. S. C. Buff Orpingtons, \$2.00 for 13; R. C. Buff Orpingtons, \$3.00 for 13. Established 29 years.

LEWIS C. BEATTY, Washington, N. J. Large Circular FREE. Box 39.

"ALL RIGHT" Little \$8.00 Sixty. This means that we ship anywhere over 60 Egg Copper Tank

"ALL RIGHT" Incubator FREE TRIAL and charge \$8.00 for it only when the customer is satisfied. Absolutely the best 60 egg machine on the market at any price. Send for our free poultry book, "All Right" (Western orders shipped from Des Moines, Ia.) CLAY PHELPS INCUBATOR CO., STATION 26, CINCINNATI, O. Please mention Green's Fruit Grower.

POULTRY PAPER, illus'd, 20 pages, 10 cents per copy. 4 mon. trial 10 cents. Sample free. 60 pages practical poultry book free to yearly subscribers. Book alone 10 cents. Catalogue of poultry books free. **Poultry Advocate, Syracuse, N.Y.**

NO COLLEGE EDUCATION is needed to run the Sure Hatch Incubator. They are so simple that they run themselves. Made of California redwood, beautifully finished; twelve ounce copper tank, and hydro-safety lamp. Fully guaranteed. Our catalog contains hundreds of photographs of the Sure Hatch Incubator at work, and valuable information. Sent free.

Sure Hatch Incubator Co., Clay Center, Neb., or Columbus, O.

BIG MONEY IN POULTRY Our Mammoth Poultry Guide explains all. Finest and most complete poultry book ever printed in colors. WORTH \$25 but cost postage book printed in colors. \$10 for only 15 cts. Get one and learn how to make poultry pay.

JOHN BAUSCHER, JR., BOX 43, FREEPORT, ILL.

HENS WILL LAY twice as many eggs if fed raw cow's milk. MANN'S BONE CUTTER MODEL

is such a success that we will send it to you ON FREE TRIAL—no money required. Easy work, no waste—or don't keep it. Free catag. explains all.

F. W. MANN CO. Box 39, Milford, Mass.

MAKE HENS LAY

Nothing on Earth will do it like Sheridan's Powder.

Thousands of successful Poultry-keepers all over the country owe no small portion of their success to the practice of mixing with the mash food given to their poultry every day, a small quantity of SHERIDAN'S CONDITION POWDER. It has been used and endorsed by Poultry-Raisers over thirty years, and for all kinds of poultry.

If you can't get the Powder send to us. One pack, 25 cts.; five, \$1. Large two-lb. can, \$1.20. Six cans, exp. paid, \$6. Sample copy best Poultry paper free. L.S. JOHNSON & CO., Boston, Mass. Please mention Green's Fruit Grower.

Prairie State Incubator

more than all other makes of incubators combined have taken. That is fairly indicative of its superiority. That is why it is used exclusively by the U. S. Government. In order that you may better understand it we have gotten up the most comprehensive and artistic catalogue of incubators ever published. Hundreds and hundreds of original photographs, colored plates, tinted pages, etc. We want you to have a copy. Send your name and address and ask for Catalogue No. 86.

Prairie State Incubator Co., Homer City, Pa.

BARRED PLYMOUTH ROCKS.

This breed is as solid as its name and is often called the "Farmer's Friend," the "All Round Fowl," the "Old Reliable." It is the bird for business, and deemed by many the best fowl for farm and home raising. It is not only a good layer, but is quick to develop for the early market. As a far-sighted farmer once said to us, "When you kill one you've got something." Barred P. Rock and White Wyandotte, good breeding cockerels, \$2.00 each; pullets, \$2.50 each; trios, \$6.00. Eggs in season from Prize Stock, \$1.50 for 13. Also, S. C. Brown Leghorn good breeding cockerels, \$1.00 each; pullets, \$1.50 each; trios, \$4.00. Eggs in season, \$1.00 for 13.

GREEN'S NURSERY CO., Rochester, N. Y.

SCHRAGE'S \$1,000,000 RHEUMATIC CURE.

DOCTORS PRESCRIBE IT.

Never Fails.

Established 1879.

Send for Testimonials. A few of many Chicago references:

J. V. Clark, Pres. Hibernian Bank; Gen. O. L. Mann, go Washington St.; F. G. McNally, of Rand, McNally & Co.; H. E. Rycroft, of Bartlet, Frazier & Co. Board of Trade; F. M. Chapin, Commercial Safety Deposit Co.; N. H. Marchael, Ass't. Claim Agent, American Express Co.; S. A. Bent, Trav. Pass Agent Can., Pac. Railway; Archbishop Feehan's New World. Agents Wanted. Price, \$1.50 per bottle. For sale by druggists or

FRANK SCHRAGE,

N. Clark and Webster Ave., CHICAGO, ILL.



SEED Oats

5 lbs. up. The clearest, best yielding oats are Michigan Northern Grown. Hammond's Hammonds English Wonder, Ovar of Russia and Michigan Wonder, the two best varieties. Rust proof, stiff straw, have yielded 200 bu. per acre. Catalog describing these oats and all other farm seeds free on request.

HARRY N. HAMMOND SEED COMPANY, Ltd.

Box 59, Bay City, Mich.

A GREAT \$3.00 SEED PROPOSITION

We want to send you a present worth \$3 in cash. There is no string to our offer. It costs you nothing—absolutely nothing. Fair and Square. All we ask is that you send us your name and address plainly written. With the present we will send you our new

SEED CATALOGUE FOR 1902. handsomely lithographed and bound in blue cloth, fully describing our special bargain offers in reliable Flower and Vegetable Seeds. You'll be interested in the catalog and you will be pleased with our prices. Write at once.

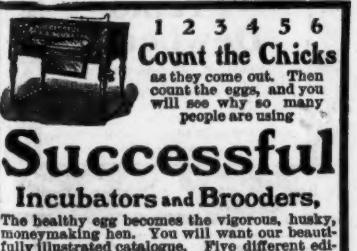
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Ceo. S. Josselyn

FREDONIA, N.Y. INTRODUCER OF Campbell's Early....The Best Grape. Josselyn.....The Best Gooseberry. Fay.....The Best Currant. Awarded gold and silver medals at the Pan-American. Large lists of Grape Vines and Small Fruit Plants. Catalogue Free.

GRAPE VINES OUR PORTLAND, N.Y. GRAPE NURSERIES, in the center of the famous Fredonia Grape Belt, produce the finest grape vines in the world. Prices as low as those of any reputable grower.—STARK BROS., Louisiana, Mo., Portland, N.Y.

5 Pkts. Choice Flower Seed including Gloxinia 10c. Address, F. A. CUNNINGHAM, 15 Henry St., Medford, Mass.



Des Moines Incubator Co., Box 16, Des Moines, Ia., or Box 16, Buffalo, N.Y.

Please mention Green's Fruit Grower.

Disease of Fowls.

The most troublecome diseases of fowls, with their causes, may be summed up as follows:

Roup—Planted by "only a neglected slight cold." Cholera—Caused principally by overcrowding. Diarrhoea—Damp houses, filthy houses and runs, and bad feeding. Canker—Dampness and filth. Diphtheria—Roosting in draughts, also damp houses. Ulcerated Throat—Ditto. Consumption—Neglected cold. Apoplexy, Vertigo and Epilepsy—Overfeeding. Sore Eyes—Damp houses. Costiveness and Constipation—Improper food. Soft and Swelled Crop—Overfeeding. Indigestion and Dyspepsia—Ditto. Dip—Damp quarters. Bronchitis—Ditto. Black Rot—Result of indigestion. Soft Eggs—Overfeeding. Gout, Rheumatism and Cramp—Damp houses. Leg Weakness—Inbreeding and overfeeding. Bumble Foot—High perches. Scaly Legs—Filthy and damp quarters.—Tennessee Farmer.

Soaking whole grain by pouring boiling water over it and allowing it to remain for twenty-four hours, will cause it to swell and prove an acceptable change to the fowls. The soaked grain undergoes a partial chemical change, contains a slightly larger proportion of sugar and is really more digestible. Nothing is added to the grain by soaking it, but it will be more rapidly eaten for a while than dry grain, though the birds will return to dry grain as a pretence, if fed too long on that which is soaked.—Fanciers' Monthly.

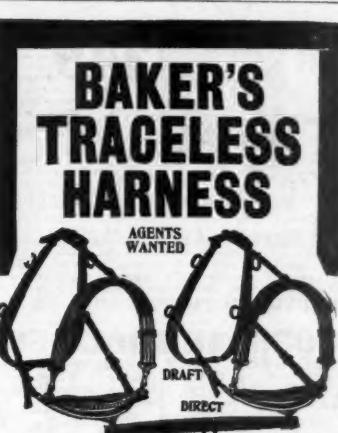
He kept his soul unspotted
As he went upon his way,
And he tried to do some service
For God's people day by day;
He had time to cheer the doubter
Who complained that hope was dead;
He had time to help the cripple
When the way was rough ahead;
He had time to guard the orphan, and,
one day, well satisfied
With the talents God had given him, he
closed his eyes and died.

New York Witness.

The Horse Ration.

We have always fed oats and bran, and continue to feed the same, says Rural New Yorker. We believe that the price of other grain has advanced in harmony with oats, therefore there could be no economy in substituting other feeds in the place of oats. In this state, and in other corn-raising states, the farmers feed principally corn to their horses, because it is cheaper than oats, and horses can be kept more economically. Corn costs more per bushel, but it goes very much further, so that the same money invested in corn as in oats will last longer. We do not feed corn, because we think oats much better. In regard to feeding brewers' grains we have had no experience, but we do mix a little oilmeal with our bran and oats. The horses do not like the oilmeal quite so well as they do the feed without it, but after they become used to eating it we think it is a good ration to mix with our other feed in small quantities.

Devotion neither stops work nor stops for work.



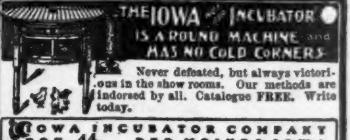
Best farm and field harness. Used and endorsed by thousands. More than saves its cost every season. Satisfaction guaranteed. Write to-day.

B. F. BAKER CO., 214 Main St., Burnt Hills, N.Y.



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If you possess a fair education, why not utilize it at a general and unprofessed profession paying \$15 to \$35 weekly? Situations always obtainable. We are the original instructors by mail.

HOME CORRESPONDENCE SCHOOL, Philadelphia



Please mention Green's Fruit Grower.

Maple Farm Duck Yards

Our mammoth Pekin Ducks stand unrivaled for size and symmetry. 2500 birds selected with care for breeding purposes. Eggs from March 1 to June 1. No birds for sale till after April 1. My book "Natural and Artificial Duck Culture," free with each order. Send for catalogue to

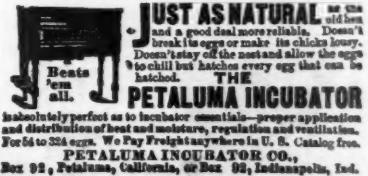
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SOUTH EASTON, Mass.



ALL VARIETIES PRIZE POULTRY
bred for utility and eggs. Stock and eggs cheap.
CATALOGUE FREE.
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We Pay \$22 a Week to introduce Poultry Compound. International Mfg. Co., Parsons, Kan.



PETALUMA INCUBATOR
is absolutely perfect as to incubator essentials—proper application and distribution of heat and moisture, regulation and ventilation. For 56 to 324 eggs. We Pay Freight Anywhere in U.S. Catalog free. PETALUMA INCUBATOR CO., Box 92, Petaluma, California, or Box 92, Indianapolis, Ind.

THE CYPHERS INCUBATOR

IS THE STANDARD HATCHER OF THE WORLD.

Used with uniform success on twenty-six Government Experiment Stations in the U.S., Canada, Australia and New Zealand; also by America's leading poultrymen and many thousands of persons in every walk of life. Guaranteed to give satisfaction or price refunded. The original and only genuine non-moisture incubator, fully covered by patent. Winner of

GOLD MEDAL AND HIGHEST AWARD AT THE PAN-AMERICAN,

Ost. 1901. Illustrated, descriptive, 16 page circular FREE. Complete new catalogues for 1902 containing 150 pages, 6x11 inches in size, for 10c postage to pay postage. Illustrates over 100 of America's largest and most successful poultry plants. Ask for Book No. 75 and address nearest office.

Cyphers Incubator Co., Buffalo, N.Y., Chicago, Ill., Boston, Mass., New York, N.Y.

On sale at all leading bookstores.

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GREEN'S FRUIT GROWER AND HOME COMPANION.

No. A456 **\$49.00.**



Trimmings. Green velvet or white leather; high wings on seat cushion. Top lined with a special light cloth to match seat trimmings; edges of top lining planked, back stays planked and reached a special design to match top lining, bottom of body and panels covered in matching cloth. (Leather or dark brocade). **Nickel Mountings.** Dash rail, panel back rail, prop rest, seat handles and hub bands. **We Have No Agents.** We give you choice of any style upholstering and any style and color paint they prefer, but will direct you to a wholesale price. **NO MONEY.** You can have it without any money with order, and if you are not satisfied in every way, we will refund your money. **We warrant our buggies 8 years and guarantee safe delivery.** Do you want, or are you interested in any way in a vehicle or harness of any kind? If so, send for our new free vehicle Catalogue. We have all styles at prices that will interest and save you money.

MARVIN SMITH COMPANY, 53 N. JEFFERSON ST., CHICAGO, ILLINOIS.

POPULAR TOOLS FOR MARKET GARDENERS

SEE SEED DROP

Straight rows are uniform and perfectly regular, depth and distance apart.

IN PLAIN SIGHT.



NEW UNIVERSAL

Double Wheel Hoe, Cultivator, Rake, and Plow.

Single Wheel Hoe Cultivator, Plow and Rake, for between row cultivation.

Adjustable Wheel Hoe.

High Arch Expansion Hoe is double and single wheel combined. Adjustable to any depth.

All kinds of Labor-Saving Attachments. All our implements are guaranteed made of best materials, finely finished and have tough oak beat handles.

Popular Prices. Improved for 1902. Send for catalog describing complete line and book.

AMES PLOW COMPANY, 23 Market Street, BOSTON, MASS.

No. 1 Peach Trees.

CATALOGUE FREE.

ARTHUR J. COLLINS, MOORESTOWN, N. J.

EVERY FRUIT GROWER
Should Read R. M. Kellogg's New Book

ENTITLED

GREAT CROPS OF STRAWBERRIES

AND HOW TO GROW THEM. The author has grown the largest crops of fancy fruit ever produced on an acre. In his experimental grounds are single plants which yield over FOUR QUARTS each of fine large berries. His customers have done as well. This has been accomplished by SCIENTIFICALLY BREEDING up plants to a high fruiting vigor so they throw their energies to the development of fruit instead of useless runners. The profit comes from a big crop of big berries that all will sight to regular customers. This book tells you all about how it is done. THE CHEAPEST PLANT is the one that will give you the best fruit and most of it. You can't afford to play second fiddle on the market by using scrub plants. The only stock of scientifically grown thoroughbred plants in the country for spring planting. Send your address at once and get it FREE. Address

R. M. KELLOGG,
Three Rivers, Mich.

EVERGREENS
Handy sorts. Nursery grown, for wind-breaks, ornaments and hedges. Prepaid \$1 to \$10 per 100-50 Bargains to select from. Write at once for free Catalogus and Bargain Sheet. Local Agents wanted. D. Hill, Specialist, Dundee, Ill.

PINK QUEEN The finest pure Pink Gladioli. Will sell a limited number at \$1.00 per dozen, postpaid. All good large bulbs. ISAIAH LOWER, BARBERTON, OHIO.

SEED BOOK FREE

Do you want one? Handsomely illustrated with photographic reproductions from nature. Contains many colored plates, and is filled with bargains that will surprise you. No other seed book like it.

140 Varieties, 12 Cents.

5 kinds of Best Beets, 10 of the Greatest Cabbages, 12 of the Choicest kinds of Lettuce, 6 of the Greatest Salads, 7 Grand New Tomatoes, 100 kinds of Vegetables and other seeds, making in all 140 sorts, which will produce bushels of choice vegetables and immense quantities of lovely flowers, all for 12 cents and addresses of three friends who buy seeds and plants. Seed book free. Write to-day.

F. B. MILLS, Seedsmen, Box 50, Rose Hill, N. Y.



BARGAINS IN TREES AND SMALL FRUITS.

We have a large assortment of all kinds of Apple, Pear, Plum, Peach and Cherry trees, also small fruit plants at low prices, but are making bargain prices on the following varieties:

KIEFFER STANDARD PEAR, RUSSIAN MULBERRY, AMERICAN ELM, HORSE CHESTNUT AND LOMBARDY POPLAR TREES.

THANKSGIVING PRUNE
REMARKABLE FOR ITS KEEPING QUALITIES, GIVEN FREE.

This new and valuable prune introduced by us for the first time last fall, has been thoroughly tested by prominent orchardists. We offer free one Thanksgiving Prune Tree, 2 years old, with each order of \$10.00 or more. New illustrated catalogue mailed free.

GREEN'S NURSERY CO.
Rochester, N. Y.

PROF. H. E. VAN DEMAN'S Answers to Inquiries.

Editor Green's Fruit Grower:

Could you please give me some information in early copy of your paper about the plum "curculio"? They were very destructive to my plums last year. I shook off all I could, but that is very slow and difficult.

Is there no preventative?

How do they breed?

Where does the insect that produces them remain in winter?

What becomes of them when they have done their work in summer?

I have written to "Gov. Expt. Station," but have received but little information. If you can give me any in your paper, you will greatly oblige, yours truly,

Mrs. Lucy Reed, Tenn.

Reply: The plum curculio breeds by laying eggs in the young plums and peaches, and when they hatch and grow into little worms they cause the fruit to sicken and fall to the ground, when they crawl into the earth and live there until they are ready to come out and go to work laying more eggs. The mature bugs live over winter and when spring comes they waken from their dormant state and are ready for the young fruit as soon as it is big enough to receive their eggs.

There is no way to spray for them, nor do I know of any other way to destroy or prevent them except to jar the trees and catch them on a sheet rigged for the purpose. It is slow, but it is the only sure way. There are catchers of this kind made ready for the work, or, one can make very simple ones at home. Many of the plum orchards of the east-

Discovery in Rheumatism.

The Philadelphia Inquirer of recent date contains an account of a most remarkable discovery for the cure of rheumatism and neuralgia by the active principle of the bark of a certain kind of willow tree which has the wonderful power of neutralizing the acid in the system so that rheumatism affections cannot exist. Dr. Stephenson, of 2 Irvington St., Boston, Mass., is the successful specialist who has the honor of discovering this certain cure. The Inquirer wired its Boston correspondent to interview the doctor and this is what he said regarding his discovery: "I tested this remedy in hundreds of cases before I made it public. I can cure rheumatism, neuralgia, lumbago, sciatica, gout, etc., without disturbing the stomach in the least, and in a marvelously short time. I do not know the limitations if there be any, for nearly all cases which I have taken have been pronounced as hopeless. I have recently so thoroughly perfected it, that I can cure a person just as surely by sending the treatment direct to their home, if they write me a full description of their case, as by talking to and treating them in person." Should any of our readers be interested it would be to their advantage to write him.

NEW GRAPE

Wonderful McPIKE—has taken all premiums over all competitors wherever exhibited. Also, all other varieties, new and old. Price list free.

SILAS WILSON,
ATLANTIC, IOWA.

ern states are protected in this way. The same is true of some of the large peach orchards of Georgia, where thousands of dollars have been saved in this way.

Mr. Green: We have about one-half dozen pear trees planted four or five years ago, and every spring they start to leave out and blossom full, then the leaves and blossoms all turn brown and fall off, as if they were dead; then they leaf out again and grow nice all summer. What is the matter and what can we do with them? They never set for pears. My husband threatens every spring to cut them down, but has not done it yet.

Mrs. B. J. Van Buren, Michigan.

Reply: It is almost certain that there is a fungus disease working on the leaves and flowers of these pear trees. The germs which cause it are probably on the bare branches before the buds open in the spring, and as soon as the young leaves and flowers appear they germinate and cause the trouble mentioned.

The remedy is bordeaux mixture. It should first be applied just before the buds open, in order to kill as many as possible of the spores before they germinate. As soon as the flowers are out of bloom, a second spraying of the same material should be given, with the addition of one of the arsenical preparations added, in order to destroy the insect enemies at the same time. This latter is so cheap and effective that it should not be omitted. Full directions for preparing and applying those remedies are given in the bulletins of the experiment stations of every state.

Which is the best of all the red raspberries for general use, and which of the blackcaps? How should they be planted and grown to get the best results?—F. C. W., of N. Y.

There is no doubt that Loudon is the best of the red raspberries for general purposes. It is almost universally liked wherever this class of our fruits succeeds. Kansas is perhaps the best of the blackcaps, although there may be some difference of opinion on this point.

Either kind should be planted in rows about seven feet apart, and the plants three feet in the row. The cultivation should be as thorough as is possible with the horse and cultivator. A good mulch of coarse manure in the row is also very helpful.

What kind of an apple is the Opalescent, and is it worth planting in the central states. Where did it originate?—A. A. G., of Ohio.

The Opalescent is a rather large and showy apple, of only fair quality, that has only been introduced a few years, and is not likely to prove of much value in any part of the country. It is not a late keeper. It originated in Michigan, and has been tested quite well there, and to a limited extent in Ohio and some other states, but with no very promising results.

What is the proper time and method for grafting cherry trees, and what is the best stock? Can the sweet cherries be grafted on to the sour kinds and the sour on the sweet?—W. B. A., of Pennsylvania.

Reply: Cherry grafting is a rather difficult operation under any conditions, because the stock and scion do not unite in many cases, and when they do unite there are many cases in which the union is so imperfect that the graft does not flourish and sometimes breaks off. Budding is usually the better way to change the tops of cherry trees, but it is necessary to first cut back the larger branches of a large tree and cause sprouts to grow that can be successfully budded. When grafting is done on cherry trees, (and the same is true of the plum,) it should be early in the spring or very late. In either case the scions should be cut very early and kept in a moist and very cool place, where there is no danger of their buds starting. The cleft graft is the common and perhaps the best method to use. Great care should be used to split the stock with a thin bladed knife that will cut its way down instead of tearing the bark open, where the scion is to be matched to it. If the work is done late in the spring, the leaves should be allowed to begin to show, when the bark will peel easily and the most extreme care will be needed to prevent starting it from the wood. If the scions are entirely dormant and plump there is a greater chance of success by this method than by any other.

The sour and sweet cherries do not unite well, no matter which is the stock or scion. They are quite unlike in wood and growth and unite very poorly. The Mabaleb, which is a French cherry stock is the best one for the sour kinds and the Mazzard for the sweet and heart varieties. Our native wild cherries have been tested as stocks and found of no value, because they rarely unite.

"Willie, whom did George Washington marry?"

"The Widow Custis, ma'am."

"Had he any children?"

"Yes'm—the sons and daughters of the Revolution."—Life.

I WILL CURE YOU OF

Rheumatism

No Pay Until You Know It.

After 2,000 experiments, I have learned how to cure Rheumatism. Not to turn bony joints into flesh again; that is impossible. But I can cure the disease always, at any stage, and forever.

I ask for no money. Simply write me a postal and I will send you an order on your nearest druggist for six bottles of Dr. Shoop's Rheumatic Cure, for every druggist keeps it. Use it for a month, and if it does what I claim pay your druggist \$5.50 for it. If it doesn't, I will pay him myself.

I have no samples. Any medicine that can affect Rheumatism with but a few doses must be drugged to the verge of danger. I use no such drugs. It is folly to take them. You must get the disease out of the blood.

My remedy does that, even in the most difficult, obstinate cases. No matter how impossible this seems to you, I know it and I take this risk. I have cured tens of thousands of cases in this way, and my records show that 39 out of 40 who get those six bottles pay, and gladly. I have learned that people in general are honest with a physician who cures them. That is all I ask. If I fail I don't expect a penny from you.

Simply write me a postal card or letter. Let me send you an order for the medicine; also a book. Take it for a month, for it won't harm you anyway. If it cures, pay \$5.50. I leave that entirely to you. Address Dr. Shoop, Box 410, Racine, Wis.

Mild cases, not chronic, are often cured by one or two bottles. At all druggists.

GIVEN AWAY
Do you want a watch that runs and keeps good time? Our watch has a Gold laid case, hands and dial, and highly finished. This is a remarkable watch. We guarantee it, and with proper care it should wear and give satisfaction for 20 years. It has the appearance of a Solid Gold one. The movement is an American Style, especially balanced, and will run for 18 hours. We offer it that when you own one of these truly handsome watches you will always have the correct time in your possession. Just the watch for railroad men, or those who need a very close timer. Do you want a watch of this character? If so, now is your opportunity to secure one. We will send you a beautiful Watch as a premium to anyone for selling 15 pieces of our handsome jewelry for 10c. each, consisting of Handsome Ring, Ear Drop, Pin, Ladies' Brooch or Lace Pin, Leeket, Etc., Etc. Simply name your hand and we will mail you 15 pieces of jeweled trinkets. When sold, we will mail the \$1.50, and we will send back all you cannot sell. We propose to give away those watches simply to advertise our business. No catch-words in this advertisement. We mean just what we say. You require no capital while working for us. Satisfaction Guaranteed. Address, **SAFE DEPOSIT WATCH CO., New York City**

Specialties for 1902.

Pear Gooseberry, Loudon, Columbian and Cumberland Raspberries, Erie and Kathryn Blackberries, Pomona, and Fay's Prolific Currents; Palmer Very Early Strawberry and McKinley Early Grape.

They Live, Grow and Bear Fruit.

Every plant is guaranteed as to quality, freshness and to be true to name and variety. This stock is strong, hardy and most carefully selected. My New Year Catalogue contains much of interest and value to every orchardist and small fruit grower. Many new varieties. It is mailed free. Write for it to-day.

ALLEN L. WOOD, Wholesale Grower, Rochester, N. Y.

STRAWBERRY PLANTS.

Choicest new and staple varieties by mail or express, guaranteed to arrive in perfect condition. We refer to many thousands of satisfied patrons during our 25 yrs. as strawberry culturists. Our 1902 catalogue contains valuable information and tells about 47 choice varieties. It is authority on the subject. FREE, write for it to-day.

M. CRAWFORD COMPANY, Box 1001, Cuyahoga Falls, Ohio.

The FINEST OF ALL.

Our New Catalog tells all about it. Send for it. Senator Dunlap, Rough Rider and 75 other Strawberries. Bargains in New Varieties. SEED POTATOES. Flansburgh & Pearson Leslie, Mich.

Premo Dewberry

The earliest and most productive Blackberry variety. Very large jet black, firm and solid. Crop ripens rapidly. This is the berry to plant for profit. Write at once for prices and particulars. Myer & Son, Bridgeville Nurseries, Bridgeville, Del.

CIDER MACHINERY

Knuckle Joint & Screw Presses, Graters, Elevators, Pumps, etc. Send for Catalogues. Summer & Hoobert Press Co., 247 W. Water St., Syracuse, N.Y.

GREEN'S FRUIT GROWER AND HOME COMPANION.

The Bachelor's Lament.

Who collars all my scanty pay,
And with my little plans makes hay?
Who says mamma has come to stay?

Who takes away my easy chair
Because "it has no business there,"
And only says she doesn't care?

Who thinks that I must ride a bike,
And makes me do what I don't like,
And tells me if I don't she'll strike?

And when I'm feeling sad and low,
Who sympathizes with my woe
And softly breathes, "I told you so!"

Reply: NO ONE! I am a bachelor.
—London "Punch."

The Ideal Farm Home.

Forty years ago this subject would have meant something quite different from what it does at present, says Indiana Farmer. Then a plain frame building, with plastered walls and a brick chimney would have seemed a great advance on the double log cabin, with its stick and mud chimney at either end, the well sweep in the yard, chickens roosting in the trees or on the rail fences. A pile of logs in the front yard was not deemed out of place in early days, and shade trees, shrubbery and flower beds were exceptional, if not unknown.

The ideal farm home as we now regard it, must have many ornamental features and numerous conveniences that in pioneer days were unthought of. As to externals our first thought is regarding walks and drives. They should be dry and clean. Mud should not be tracked into the house, and to prevent this gravel should be used freely, not only to make walks to barnyards and outhouses, but to build drives from the road in front to the wagon shed in the rear. A shed or covered way ought to extend from a side porch of the house to the drive so the ladies can enter or depart from the carriage dry shod. It must have a telephone connecting with all the neighborhood and the towns and villages near. It can have a daily mail, which it easily can have if the roads are what they ought to be. It must have shade trees, vines, shrubbery and flowers in the blue-grass lawn, and a small fruit as well as a vegetable garden, well stocked with the best varieties and well tended, and it should be convenient to the kitchen, so as to be most available and useful.

As a standard of the measurement of progress in this direction, the speaker took the time of Washington. He averred that the fruits of the time of Washington were known as apples, pears and peaches, and that a differentiation of the species was unknown, and the same was true of flowers. The speaker held that the value of this learning and progress in its effect of the development of the child could scarcely be overestimated. Professor Bailey said the knowledge of Nature possessed by the child was gained almost entirely through his association with plants and animals, and that everything which made for a closer association of this kind was a potent factor in shaping the character of the coming generation. Among the innovations urged by the speaker was the establishment of gardens, not necessarily pretentious, in the vicinity of all public schools. He also thought the parks, while not being made less ornamental, might be made more useful, and especially more useful to children, not only as play grounds, but as schools of nature.

A New Treatment for Deafness and Catarrh.

Bradford McGregor, of Cincinnati, O., a well known demonstrator of applied sciences, asserts as a fact that catarrh and deafness can be cured, this assertion following his personal experience. Having suffered for years with catarrh, which resulted in very poor health and almost total deafness, his condition became such that specialists refused longer to treat him, saying his case was hopeless. Thus thrown upon his own resources, after using all known applications, he finally devised a new method of treatment based upon a principle entirely different from anything he had ever used or heard of, and cured himself with it. His hearing is perfect now, health good and no catarrh. The success of this remarkable treatment in the many tests made upon those similarly afflicted has been phenomenal, and to further extend its usefulness and to prove that it will cure, a free trial and full explanation will be sent by Mr. McGregor to any who suffer and will address him at 433 Lincoln Inn Court, Cincinnati, O., and send twenty cents to pay the expense only for registering and mailing.

A Chinese Banquet.—"Reader:" A writer in the Leisure Hour gives an excellent description of a Chinese banquet: For the first course were handed sugared cakes, cavaille, fried grasshoppers, dried fruits and Ning-Po oysters. Then followed, successively, at short intervals, ducks', pigeons' and peewits' eggs poached, swallows' nests with mashed eggs, fricassees of ginseng, stewed surgeon's gills, whales' sinews with sweet sauce, fresh-water tadpoles, fried crabs' spawn, sparrows' gizzards, sheep's eyes stuffed with garlic, radishes in milk flavored with apricot kernels, mateletes of holothurias, bamboo sprouts in syrup and sweet salads. The last course consisted of pineapples from Singapore, earthnuts, salted almonds, savory mangoes, the white fleshy fruits of the long-yen, the pulpy fruits of the litchee, chestnuts and preserved oranges from Canton. After the dessert rice was served, which the guests raised to their mouths with little chopsticks, according to the custom of their country. Three hours were spent over the banquet. When it was ended, at the time when, according to European usage, salvers of rose water are frequently handed round, the waiting maids brought napkins steeped in warm water, which all the company rubbed over their faces, apparently with great satisfaction.

The Champion is considered one of the best mid-season varieties. It is a large, white peach, closely resembling the Bokara No. 10. A Champion measuring nearly eleven inches in circumference was picked by Mr. Fletcher from a limb that had been broken down by the wind, but was not entirely severed from the tree. It is his opinion that peaches grown on such limbs will be larger than others, and that a small wire tied around a limb early in the season will cause the fruit on that limb to grow extra large. Other standard varieties are Early Rivers, Hills Chili and Elberta, Stump, Salway.

We all learn to feel resignation over the trials of our friends.

When a woman can't shop for herself the next best thing is to shop for somebody else.

Women don't carry on half as much over the death of a near relative as they do over the sickness of a dressmaker who is working for them.

When a woman gets up in the morning why does she always peep in the looking glass before she gets down on her knees to say her prayers—New York Press.

Did not Jesus say, "I am the door of the sheepfold"? What to us is the sheepfold, dear children? It is the heart of the Father, whereunto Christ is the Gate that is called Beautiful. O children, how sweetly and how gladly has he opened that door into the Father's heart into the treasure chamber of God! And there within he unfolds to us the hidden riches, the nearness and the sweetness of companionship with himself.—John Tauler.

Actions may speak louder than words, but they don't lie as loud.

Postage stamps are egotistical when they are stuck on themselves.

The masculine animal doesn't cut much ice from the time females cease to slobber over him as an infant until they begin to kiss him as a man.

John E. Dardis, a policeman of Winsted, Ct., saw snow falling the other morning and put on a pair of heavy trousers. He had a hurry summons down town and jumped into the trousers and left the house on a run. He had not gone far, however, before something began to sting, and he stopped in a clothing store to investigate. A number of hornets had built a nest in one leg of his winter trousers and resented his intrusion.

At the old-fashioned inns and restaurants in Sweden it is customary to charge less for women than for men, on the theory that they do not eat so much. At some hotels in Sweden a man and wife are charged as one and one-half persons if they occupy the same room. A husband and wife may travel as one and one-half persons by railway, and also by post routes, furnishing their own carriage.

Stop looking for trouble, an' happiness 'll look for you.—The Advance.

Shallow men believe in luck; wise and strong men in cause and effect.—Emerson.

Value of Trees.

All trees "draw" the ground, says Texas Farmer. They do not monopolize the plant food so much as they do the water supply. The roots of most trees extend laterally as far as the height of the trees, and for a distance of half their height it is impossible to grow anything. This is the reason why so many farmers will hardly tolerate a tree or a hedge on their place except around the house. But trees are of great value, as shade for stock and as wind breaks, and a fine avenue of uniform trees adds much to the beauty of the landscape. By digging deep trenches on the sides of tree rows or hedges next to adjoining orchards or fields and cutting off the lateral roots the shade trees will not "draw" the ground. Such a trench can be cut with a heavy plow by running one furrow in the bottom of the other, and carrying an axe to cut the big roots. The furrow can be turned back and smoothed. Such a furrow will need opening every other year, as tree roots grow rapidly in the tilled ground.

Old age is a tyrant who forbids, at the penalty of life, all the pleasures of youth.—Rocheoucauld.

To be faithful in darkness, that is the supreme test to which the human spirit is subjected.—George S. Merriam.

MADE \$105 THE FIRST MONTH

Writes Mr.
Fred. Blodgett
of N. Y.

"Orders coming in faster than I can get them." J. L. BARRICK, of LA., writes: "Am making \$8.00 to \$8.00 every day I work." H. F. BALLOW, of MASS., writes: "Made \$17.00 the first five days." I. T. CONKLIN, of OHIO, writes: "Am teaching school. Double my income plate evenings and Saturdays." M. A. CLINE, of IND., writes: "Prof. Gray is certainly a friend of the masses. I am pleased with your outfit." "Money in the plating business." MRS. T. M. MORGAN, of ILL., writes: "Am a poor woman with three children, yet the first month I plated over 400 pieces." ALBERT ABRAHAM, of MINN., writes: "Must tell you of my success.

MADE AS HIGH AS \$9.25 A DAY.

The plating I did last year gives perfect satisfaction." W. F. STIGLITZ, of S. C., writes: "Anyone can do fine plating on your outfit. I find them exactly as represented. R. P. COAD, of ILL., writes: "Very pleased." "We make plating than I can do." MRS. O. J. ARMITAGE, of ILL., writes: "We can do good plating by your process. I had no trouble." MRS. L. M. ANDERSON, of IOWA, writes: "I made \$3.50 to \$6.50 a day.

Well pleased. Gray & Co., were very kind to me." Hundreds of others are making money. So can you. Investigate Costs nothing. Simply write us. Do it today. Let us start you. Gentlemen or ladies can positively make \$8.00 to \$15.00 a day at home or traveling, taking orders, using, selling and appointing agents for Prof. Gray's latest improved machines for doing gold, silver, nickel and metal plating on watches, jewelry, tableware, bicycles, all-metal goods.

LET US START YOU.

We've done plating for years. Will teach you, furnish receipts, formulas and trade secrets FREE. No experience required. We make outfitts all sizes. Easily operated. Send them out complete. Work on same principle as Roger Bros. do their best plating. THE ROYAL PROF.

GRAY'S NEW IMMERSION PROCESS. Latest method. Goods dipped in melted metal, taken out instantly, you find brilliant plate, ready to deliver. Thick plate every time. Guaranteed to 10 years. A boy plates 300 to 300 pieces of tableware daily. No electricity or polishing necessary.

Tremendous demand for plating. Every family, person, restaurant or factory has goods to be plated. You can start to earn money. Our agents have the plating that can do. You can hire boys cheap to do your plating that same day. Plating is honest and legitimate. Customers delighted.

PROFITS IMENSE. We're old established firm. Capital \$100,000.00. Largest mfg's. Know what is required. Customers have benefit of our experience. All goods fully guaranteed. Write Today Free, so we can start you at once. Gray & Co. Plating Works, 51 Miami Bldg., Cinc'y, O.

DEFORMITIES CURED!

ALL PERSONS Crippled or Deformed, lame or paralyzed, should investigate and see what is being accomplished at this institution for these cases.

CROOKED OR CLEFT LIP, of any variety, and all are removable. Large or small, wide or narrow, and deep or shallow. The methods used are mild; no cutting, no plaster paris, no severe or painful treatment of any kind, and the result is guaranteed.

POTT'S DISEASE, when treated in time at this institution, will result in no deformity; parapalsys will always be prevented; the health and strength of the patient is at once improved; the growth not interfered with. Plaster paris is never used.

SPINAL CURVATURE, even in long standing cases can be perfectly corrected by the new and improved methods in use here. Plaster paris, felt, leather jackets are never employed. Names of patients recently treated, after all ordinary methods and doctors had failed to afford relief, will be furnished on application.

HIP DISEASE can be cured without surgical operations or confining the patient to bed. Abscesses, shortening deformity and loss of motion can always be prevented, and, if already formed, removed. The methods used in the cure of Hip Disease in all its stages are radically different and more successful than those generally employed. Write for information.

PARALYSIS and RESULTING DEFORMITIES. For no class of afflictions has greater preparation for successful treatment been made. Deformities of the limbs, joints or feet, resulting from paralysis, can always be corrected without surgical operations or severe treatments. Patients should not be neglected; children never outgrow it; it is not incurable. CROOKED AND DISEASED KNEES, HIPS, HANDS, LIMBS and deformities resulting from Rheumatism are successfully treated without pain.

This is the only thoroughly equipped institution devoted to the cure and correction of deformities. Examination and consultation by mail or in person, free of all charge. References furnished on application. Pamphlets sent on request.

THE L. C. MCCLAIN MEDICAL AND SURGICAL INSTITUTE, 3100 Pine Street, St. Louis, Mo.

Please mention Green's Fruit Grower.

STARK TREES

best by Test—74 YEARS. Largest annual sale. High quality—not high price. Finest sorts. We bud graft 5 million—1- and 2-yr. Other Trees, Vines, etc., in proportion. 1400 acres Nursery.

43,000 acres Orchards. FRUIT Book free.

box and pack free, ask no money till SAFE arrival—guarantees SATISFACTION.

We PAY CASH each WEEK and want more. HOME and traveling salesmen. Apple of Commerce, Black Ben Davis, Champion, Delicious, Stark Louisiana, N. Y. Senator, Stayman Winesap; Gold plum; Elberta; Visits Stark, Mo., etc.

Three Expert Mechanics Test Every Blade.

This cut is exact size of 75-cent strong knife. To start you we will send you one for 48c; 5 for 52c, postpaid.

Best 7-blade shears, 6c. This knife and shears, 5c. Fine 3-blade penknife, 5c; extra fine 3-blade,

5c. Send for 8c-page free list and "How to Use a Razor."

MAHER & GROSH CO.

648 S. St., Toledo, Ohio.

Is Fruit Growing Overdone?

Written for Green's Fruit Grower. The over doing of fruit growing has ever been a nightmare to many fruit growers, or those who would have become fruit growers had they not been possessed with great fears on the subject. There has never been over-production in this country, looking at the question in a broad sense. If there has seemed to be over-production it was simply a lack of distribution. Forty or fifty years ago, before fruit growing was considered a commercial pursuit, the farmer who brought into Rochester, N. Y., a few baskets of peaches, or apples found difficulty in selling them, and might have asked himself the question, "Is not the fruit business over-done?" We know now that it was not over-done, and that the reason why he did not sell his fruit more readily, was that people had not been educated to buy and eat fruit. Those were venturesome men who planted many years ago orchards and vineyards with the prophecy made on every side that fruit growing was overdone. The average reader has little idea of the immense amount of fruits of the various kinds produced at the present date. It may be doubted if one hundred people of the 75,000,000 of our population have a correct idea of the magnitude of the fruit business of this country. There was a time when Western New York was the center of fruit interest, and thus it was thought that no other locality could compete with it in the slightest degree. Now there are numerous localities in many sections of the country where fruit-growing seems to be as successful as in this famous locality, and in many parts of the country it is claimed that fruits do even better than in Western New York. Twenty years ago an apple orchard of fifty acres in Western New York was considered a marvel, but now such an orchard as this in many parts of the country would not be considered notable. In old times a vineyard of an acre or two was considered a vast enterprise; but now vineyards embrace hundreds and sometimes thousands of acres. About twenty years ago peach culture was almost given up as a failure, even in such favored localities as Western New York, while now peach culture has been extended into almost every state and territory, and where twenty years ago there was one peach tree planted there are now ten thousand or possibly fifty thousand.

The growth of the fruit industry all the way across the continent has been something marvelous. If an exhibition could be made of all the fruit grown in this country, loaded upon freight cars, and moved along one line of railroad, if such could possibly be done, the beholder would exclaim, "It is not possible that all this vast product can be sold or consumed!" And yet it is sold and consumed as the years go by, for while our people are being educated in the use of fruits, they have much more to learn in regard to their value as a wholesome and delicious diet.

Surely there will be seasons when the apple crop of a certain section, or the strawberry, peach, or plum crop, may be in excess of the demand in that particular section of the country, but if these same fruits could be widely distributed, to meet the wants of sections where they have no supply, it would all be consumed readily.

York Imperial Apple.

After about twenty years' personal experience with York Imperial, and a number of years' careful observation of its behavior in different counties of the state, I am satisfied that it varies greatly, both as to eating and keeping qualities, according to the section where it is grown. It is not a good apple in the fall or early winter either for eating or cooking, but when grown in a location to which it is adapted, and kept in shallow bins in a cool cellar, or better yet, a cave, it comes out in the spring a fairly good apple for any purpose. It will stand up longer and bear more handling than any of the finer varieties, and coming when all of the strictly high-class varieties are out of the market, it sells well. For this reason the growers of Franklin, Adams, York and some parts of Cumberland county have found it very profitable.—Rural New Yorker.

Cracked wheat is an excellent food for young chicks.

How to Drain Land Profitably.

On every farm there is probably some land that could be made more productive by underdrainage. Properly drained land can always be worked earlier, and more profitably. The best and most economical way to drain is explained in the book, "Benefits of Drainage and How to Drain," which is sent free by JOHN H. JACKSON, 102 3rd Ave., Albany, N. Y.

The Worth of a Smile.

The thing that goes the farthest towards making life worth while, That costs the least and does the most is just a pleasant smile. The smile that bubbles from a heart that loves its fellow men Will drive away the clouds of gloom and coax the sun again. It's full of worth and goodness, too, with many a kindness blent— It's worth a million dollars, and it doesn't cost a cent.

There is no room for sadness when we see a cheery smile— It always has the same good look—it's never out of style— It nerves us on to try again, when failure makes us blue; The dimples of encouragement are good for me and you. It pays a higher interest, for it is merely lent— It's worth a hundred thousand dollars and it doesn't cost a cent.

Baltimore American.

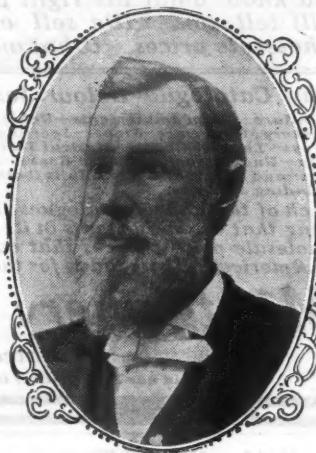
Best Tools for Fruit Growers.

F. S. Walbridge, a subscriber to Green's Fruit Grower, asks to be informed in regard to the best tools for orchard cultivation. I have often written on this subject, but perhaps more could be said with profit to our readers. We have used the Acme harrow for many years and consider it a valuable implement, not only for a fruit grower, but for the farmer and gardener. There is no one implement that will take the place of many other implements. Do not be afraid to invest in desirable tools for the cultivation of the soil. The disc harrow is used more generally and with better effects in orchards than any other one implement. Plows dig too deep, disturbing the roots, and are not used in orchards as formerly, except to turn sod, on crops grown as fertilizers. The disc harrow goes over the ground much more rapidly than the plow and does the work of plowing and harrowing at the same time. It is not desirable to cultivate deeply in the orchard, vineyard or berry field; in fact, it is injurious. The object in cultivating an orchard or any kind of fruit, plants, trees, or vines is to preserve continually two or three inches of loose soil over the entire surface, which acts as a mulch, holding moisture in the soil and preventing evaporation. This cover of loose soil over the earth produces the same result as though the surface was covered with layers of straw. All you need to do is to move this soil with disc harrow, or occasionally with an Acme harrow, at least once in two weeks, or once after each heavy rain. Disc harrows are made to be adjusted so as to run at one side of the team, running closely to the rows of trees or other objects without crowding the team or whipping trees onto the row; do not buy any other kind of disc harrow than this for orchard work. Every fruit grower or farmer must have a sharp tooth harrow. These are similar to the old style of harrow, excepting that the frames are of iron and that they are made to cover a wider surface. No one should be satisfied without the best plow made, and it should never be used without a good sharp point. There are numerous one-horse cultivators made in various styles and constructed so that by changing the teeth or other parts, one cultivator can be made to do many kinds of work, throwing the dirt toward the plant or away from it. The Planet Junior and Iron Age cultivators are among the best and are sold with equipments of teeth, etc. A one-horse weeder made of steel teeth that slightly scratches over the surface of the soil, destroys weeds just starting readily, in corn, and potatoes, but this implement should not be used by the fruit grower, except possibly in orchards where no small fruits are in the way.

Implements for spraying are numerous and among the most important. We use a two-horse spray wagon with tank mounted on two wheels, with the axle-tree bent high so as to elevate the platform and tank at least four or five feet from the ground, so as to straddle safely a row or two of trees or bushes. A two-horse spraying wagon works better than one-horse, since two horses pass each side of the row, keeping the wheels out of the way of the object sprayed better than by one horse. Further than this, the tank of water is usually heavy and cannot be easily drawn over loose cultivated soil by one horse. We spray our strawberry plants and almost everything in the way of trees, plants and vines. Almost all farms differ as regards soil, some clayey some sandy, others loamy or gravelly, therefore tools have to be selected which are suitable for the farms on which they are to be used. After having purchased valuable tools, keep them housed. Many people leave their cultivators and other tools in the fields all summer and often all winter, uncovered. More tools are damaged by exposure or for lack of housing, than by actual use.

DOCTORS ENDORSE SWAMP-ROOT

To Prove What SWAMP-ROOT, The Great Kidney, Liver and Bladder Remedy, Will Do For YOU, Every Reader of Green's Fruit Grower May Have a Sample Bottle Sent Free by Mail.



A. J. HAILE, M. D.

ception in the case of Dr. Kilmer's Swamp-Root. My experience, so far as I have tested it in my practice, forces me to the conclusion that it is a remedy of the greatest value in all kidney, liver, bladder and other inflammatory conditions of the genito-urinary tract. I now take pleasure in prescribing Swamp-Root in all such cases with a feeling of assurance that my patients will derive great benefit from its use. I shall continue to prescribe it in other cases in my practice with the expectation of good results.

Very truly yours,

A. J. Haile, M.D.

Gentlemen—I have prescribed that wonderful remedy for kidney complaint, Dr. Kilmer's Swamp-Root, with most beneficial effect and know of many cures by its use. These patients had kidney trouble, as diagnosed by other physicians and treated without benefit. Dr. Kilmer's Swamp-Root effected a cure. I am a liberal man and accept a specific wherever I find it, in an accepted school or out of it. For desperate cases of kidney complaint under treatment with unsatisfactory results I turn to Dr. Kilmer's Swamp-Root with most flattering results. I shall continue to prescribe it and from personal observation state that Swamp-Root has great curative powers. Truly yours,

J. Bartow Irick, M.D.
276 9th St., Borough of Brooklyn, N. Y.

East Atlanta, Ga., March 1st, 1901.
Dr. Kilmer & Co., Binghamton, N. Y.

Gentlemen—While it has never been my habit or inclination to recommend remedies the ingredients of which are not all known to me, it seems as if I should make an ex-

The mild and extraordinary effect of the world-famous kidney, liver and bladder remedy, Dr. Kilmer's Swamp-Root, is soon realized. It stands the highest for its wonderful cures of the most distressing cases.

Weak and unhealthy kidneys are responsible for more sickness and suffering than any other disease, therefore, when through neglect or other causes, kidney trouble is permitted to continue, fatal results are sure to follow.

We often see a friend, a relative, or an acquaintance apparently well, but in a few days we may be grieved to learn of their severe illness, or sudden death, caused by that fatal type of kidney trouble—Bright's Disease.

EDITORIAL NOTE—If you are sick or "feel badly," begin taking the famous new discovery, Dr. Kilmer's Swamp-Root, because as soon as your kidneys are well they will help all the other organs to health. A trial will convince anyone.

You may have a sample bottle of this wonderful remedy, Swamp-Root, sent absolutely free by mail, also a book telling all about Swamp-Root and containing many of the thousands upon thousands of testimonial letters received from men and women who owe their good health, in fact, their very lives to the great curative properties of Swamp-Root. In writing to Dr. Kilmer & Co., Binghamton, N. Y., be sure to say you read this generous offer in Green's Fruit Grower.

If you are already convinced that Swamp-Root is what you need, you can purchase the regular fifty-cent and one-dollar size bottles at the drug stores everywhere. Don't make any mistake, but remember the name, Swamp-Root, Dr. Kilmer's Swamp-Root, and the address, Binghamton, N. Y., on every bottle.



THE WHITE WYANDOTTE

One of the handsomest fowls known; large size, good layers, and highly prized for their meat. The New York markets will, in time, more fully appreciate the value of the Wyandotte for its delicacy on the table of the epicure. It will be noticed that no breed has all the good qualities, therefore, if we want all the good qualities, we must have more than one breed, but surely no one can make a mistake in breeding the White Wyandotte, considering their beauty, egg laying propensities, and desirability in markets of the world. White Wyandotte and Barred P. Rock, good breeding cockerels, \$2.00; pullets, \$2.50 each; trios, \$6.00. Eggs in season from Prize Stock, \$1.50 for 12.

Also, S. C. Brown Leghorn good breeding cockerels, \$1.00 each; pullets, \$1.50 each; trios, \$4.00. Eggs in season, \$1.00 for 12.

Green's Nursery Co., Rochester, N. Y.

LICE ON POULTRY and ANIMALS.
No master how clean your yards and pens are kept, poultry and animals will get lousy. They must have help to rid themselves of insects. You need a never failing destroyer. LIEBIG'S LICE KILLER is a staple upon the farm. It is the old standard remedy used all over the world. By painting, spraying or sprinkling roots, pens and floors, the work is done. Has no superior for spraying vines and shrubbery. Prices—quarts, 50c; gallon, 50c; gallon, \$1.00; a barrel, \$6.00. Our is the only true Liebig's. Do not buy imitations direct to consumers at wholesale jobbing prices. Quotations cheerfully given. Agents wanted. Write for free illustrated book, "Poultry and Veterinary Book." HELLER CHEMICAL CO., Dept. 29, Chicago, Ill.

Please mention Green's Fruit Grower.

**"DEFENDER" SPRAY PUMPS**

Delivered Express or Freight-Free.
Latest improved, all-brass pumps—warranted for three years. Over 100,000 in use. Endorsed by leading Entomologists. Your money back if pump doesn't give absolute satisfaction. Price \$12.00. Illustrated Catalogue, Spray Calendar, and Treatise on Spraying—all mailed free. AGENTS WANTED.

J. F. GAYLORD (Successor to P. C. Lewis Mfg. Co.), Catskill, N. Y.

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NO MONEY REQUIRED.**

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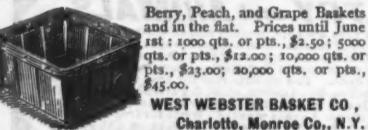
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Hidden Uses of Trees.

Every leaf on a tree is unceasingly industrious day and night, says Chicago Post. Examine the linden leaf, or, in fact, any leaf will do—the truth applies to all—and notice how its surface is spread to catch the sunshine. The underside of the leaf has a different appearance. The tissue is tenderer and a network of breathing pores. A section placed under the objective of the microscope reveals tiny cells filled with a greenish liquid called chlorophyl, which plays an important part in the domestic economy of the tree. When undigested food from the ground has been carried to the leaves the chlorophyl seizes it, and under the influence of sunlight changes it to nourishment. The chlorophyl also breaks up the carbon dioxide with which it comes into contact, and, liberating the oxygen, sends it out into the atmosphere.

Digested food materials are carried from the leaves to all parts of the tree and aid in its growth. Leaves as the lungs are necessary in the process of breathing. Like animals, the tree needs oxygen and breathes much after the manner of a human being. Not only is the life giving air taken into the lungs, or leaves, but it is inhaled through tiny openings in the bark, just as men and animals transpire through the skin. These tiny breathing holes are called lenticels, and may be seen plainly on the bark of cherry and many other kinds of trees. As the tree drinks water, it sweats and exhales water vapor along with the oxygen cast off from the carbon dioxide.

Tons and tons of moisture is evaporated from wooded areas. This is another beneficial act. Water vapor in the atmosphere is essential to agriculture. Trees transpire through cracks and fissures in the bark, where the lenticels are hidden from sight. This is especially true in old trees. From time to time scientists have computed the leaf area of trees and the results have been astonishing. An ordinary linden leaf has a surface of ten square inches. Multiply this by the number of leaves on a branch and calculate the leafage area of the tree. This entire surface is liberating oxygen and water vapor day and night.

Incompatibility of Youth and Age.

So different are colors of life as we look forward to the future or backward to the past, and so different the opinions and sentiments which this contrariety of appearance naturally produces, that the conversation of old and young ends generally with contempt or pity on either side, says Samuel Johnson. To a young man entering the world with fullness of hope and ardor of pursuit, nothing is so displeasing as the cold caution, the scrupulous diffidence, which experience and disappointments certainly infuse; and the old man wonders in his turn that the world never can grow wiser; that neither precepts nor testimonies can cure boys of their cruelty and sufficiency; and that no one can be convinced that snares are laid for him, till he finds himself entangled. Thus one generation is always the scorn and wonder of the other; and the notions of old and young are like liquors of different gravity and texture, which never can unite.

For the land's sake use Bowker's Fertilizers. They enrich the earth.

Do and Don't.

Plant different kinds of fruit trees, so as to be sure of a crop of some kind, says Garden and Farm.

The whole country would be beautiful if every home were adorned with trees and flowers.

Wood ashes spread around currant vines and red raspberries makes an excellent fertilizer.

If railroad corporations will plant trees along their lines they will be blessed in future years for their forethought.

Don't plant trees on the south side of a road; they keep out the sun and let in the winds, and the ground is a long time drying out.

Trees on the north side of a road protect from cold winds, and mud and ice disappear more rapidly under such conditions.

Plenty of shrubs and flowers around the house, add not only to the attractiveness of a place, but to its selling value as well.

If the fruit trees need pruning, it is easier to prune as soon as the necessity shows than after years of neglect.

When a tree is planted set a stout stake beside it and then tie the tree to the stake with a band of straw.

The pear tree is more liable to disease than any other fruit tree, unless we except the peach.

In manuring the orchard, remember that the roots of the trees extend as far out as the branches.

All fruit trees should be carefully labeled, so that the owner may know what he possesses.

The Apple.

The apple is destined, in the future as in the past, to lead in variety and value and quantity, as compared with the other fruit industries of the world, says Farmers' Tribune. In the United States we find a soil and a climate peculiarly adapted to the successful cultivation of this admirable fruit. As compared with the orange the apple flourishes in the snow belt as well as beneath the genial clime of the sunny south. Among the distinguishing characteristics of the apple is the abundance of its yield; its cheapness; its enduring qualities, and the numerous dispositions to which it can be utilized. The yield of this fruit in the United States is said to be 210,000,000 barrels per annum. In its natural state the apple is at its best. In this condition apples can be easily stored away, to be easily brought forth in suitable quantities in the winter months, when the flavor of the fruit is improved by having been stored away. Dried, they can be readily converted into toothsome pies, the delight of the schoolboy; canned, they have a delicious taste of their own; made into apple pies and dumplings, we have a feast fit for a king; roasted or baked, the apple is still supreme; made into a cider, it becomes a brew fit for the gods. The countless other dishes to which this fruit can be utilized lead us to conclude that no other fruit can approach its excellence.

So far experience seems to indicate that it is a good practice to plant plum and apple trees in the early starting of a grove. They get the protection that is favorable to them, meanwhile the planter will receive much satisfaction and profit from the fruit they will produce.

Success and Failure.

It is a known fact that a large proportion of the men who have been eminently successful began with nothing, and worked their way up by sheer force of will, and we say of such men that they would succeed anywhere and under any circumstances, says the Cultivator. On the other hand there are men who seem as certainly bound to fail. May we not go further than this and assert that, as a rule, success or failure is not dependent on circumstances, but is inherent in the man?

Take for instance the farmer who lacks interest in his work, and who is perhaps more common than is generally supposed. He will argue on politics, criticise the management of town affairs, gossip about his neighbors, pore over the daily paper—these things he will do with evident zest. But try to get him to read something on farming, or to discuss new farming methods, and he is indifferent; the subject doesn't interest him, and he changes it at the first opportunity. Success is simply impossible with such a man.

The man who works his body too hard dulls his mind. He may not have a lazy bone in him, as the saying is, but he is mentally lazy, and the more he encourages this kind of indolence the less able is he to work intelligently. He gets to hate mental exertion. He would rather work a whole day than to save half of it by a little thinking. He doesn't want to try new and easier methods—it is easier, mentally, to drudge along in the old, hard ways and be a back number.

The Seckel Pear.

The Seckel pear is the sweetest and richest of all pears, says National Stockman. The tree is the hardest of all—almost free from blight. The fruit is small and not handsome. But nature often puts up the most precious things in small packages, and homely people are often the most amiable and useful.

Thousands of seedlings of this pear have been fruited but none of them equalled the parent. The seedlings are vigorous but show such variety that we infer the parent is a hybrid. Some are thorny, and some are smooth like the best cultivated sorts.

The Seckel has a peculiarity that is not often observed. From the time of its first ripened fruit until the last is three or four weeks. It should be gathered gradually, allowing three or four weeks for the last to ripen. A good plan is to shake the tree every few days and let the ripest fall. They are pretty solid and small and will not bruise if they have a soft place to fall. If the whole crop be taken at once a large part will be unripe. This gradual ripening is also noticed in the Bloodgood pear, but not so long continued as in the Seckel.

E. C. Crosman, of New York, recommends the readers of Green's Fruit Grower to plant peach trees not only in their gardens in the rear of the house but in clumps in one corner of the lawn, since peach trees properly trained and cut back each season are attractive particularly when in blossom or when filled with beautiful fruit. I have found that peach trees grown near buildings often succeed in localities where they would not succeed in open field on account of the severity of winter. Trees I planted have borne fine peaches this last season, and yet I live in Chautauqua county where peaches do not generally succeed.

Would You Care

To be cured of stomach trouble, constipation, torpid or congested liver? Would you like to be sure that your kidneys are always in perfect condition? Would you wish to be free from bladder and prostate inflammation and from backache, rheumatism and catarrh? The Vernal Remedy company, Buffalo, N. Y., will send you free and prepaid a small bottle of their Vernal Saw Palmetto Berry Wine, which makes all of the above troubles impossible. One dose a day of this remedy does the work and cures perfectly, to stay cured. There is no trouble and but a trifling expense to cure the most stubborn case. Write for a free bottle and prove for yourself, without expense to you, the value of these claims.

Any reader of Green's Fruit Grower may have a sample bottle of Vernal Saw Palmetto Berry Wine sent free and prepaid by writing to Vernal Remedy company, Buffalo, N. Y. It cures catarrh, indigestion, constipation of the bowels, congestion of the kidneys and inflammation of the bladder. One dose a day does the work quickly, thoroughly and permanently.

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the Supporter. It is the only automatic supporter ever invented. No hooks needed; no buttons; no sewing of any kind. You ladies know what a convenience that means. There are one million and a half women wearing them now, and every woman who sees them wants one. There never was an easier article to sell, as the price is only 25 cents each. Simply show the Supporters to your friends and they will sell themselves. You will sell as many in each family as there are women and girls, and each one sold sells others. You can thus earn a premium that will last you a lifetime, in a few odd moments that would otherwise be wasted. Last year over one million of the Supporters were sold in this way. We have premiums for selling any quantity, from a half-dozen to a gross. You can sell as few or as many as you choose, and get a premium accordingly. Try it and see how easy it is. See what a pleasant opportunity this is for spending your leisure profitably. Write today before someone else sells to your friends.

Send us no money, simply write us and we will send the Supporters and large catalog of Premiums, charges paid. We trust you with them, so that you do not invest a penny. You have no risk whatever, for if you don't sell all of them you can send the balance back. When you have sold what you want to, send us the money you receive for them, and we will send you your selection of any of our premiums to which you are entitled.

We pay all freight. We pay all transportation charges on the Supporters, and also on your premium. From beginning to the end you invest nothing whatever. Here is a chance to earn any of a hundred premiums, in a few odd moments, without any investment or risk. At the same time you are furnishing your friends with Supporters for which each friend will thank you for showing her. Won't you write us today?

If you wish to see the Supporters before beginning to sell, send us 25 cents in stamps and we will mail you one.

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Vaughan's Seeds have for years been acknowledged the standard for purity. The fact that we are supplying the most critical market gardeners in all parts of the United States every year with our seeds is the best evidence that can be given as to their purity and productiveness.

33 PACKETS FOR \$1.00

To induce gardeners and farmers who have never used Vaughan's Seeds to give them a trial this year, we have made up a collection of the best varieties of seeds, flowers, and vines, and will send them to you paid for only \$1.00. This assortment would cost you about \$2.00 if purchased from any retail store.

KNIFE FREE.

In addition to sending the 33 packets (full size) of Vegetable Seeds for \$1.00 we will include ABSOLUTELY FREE one of Vaughan's Pruniferous Knives. This knife is made of the best quality of steel, and is something which every gardener and farmer should have.

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ASPARAGUS	...New White Bean
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CELERI	...Solid Ivory
CORN, SWEET	Early Crosby
CORN, SWEET	Evergreen
CORN, SWEET	...Green
PARSLEY	Double Curled
PARSNIP	Hollow Crown
PEAS	Long Island Mam.
PEAS	Amer. Wonder
PEPPER	Ruby King
PUMPKIN	...Favorite
LIMA BEAN	Simpson
LETTUCE	Chicago Market
MUSK MELON	Rocky Ford
ONION	Phila. SilverSkin
ONION	Scarlet Rivers
RADISH	White Strasburg
RUTA BAGA	Purple Top
SPINACH	New Summer
SQUASH	Orange Marrow
TOMATO	Beefsteak
TURNIP	Red Top Globe
WATER MELON	Sweetheart
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Please mention Green's Fruit Grower.



Perhaps every father has something to say to his son about his conduct with ladies. I appreciate the advantages connected with the association of right minded young men and young women. I believe that a young man is greatly improved by associating with young ladies. At the seminary which I attended in my youthful days, the girls all occupied seats on one side of the table, and the boys on the other side. Our seats were permanent, thus each term I sat opposite the same girl. I will never forget the lady who sat opposite me. She had fair complexion, pink cheeks, blue eyes and light curly hair. I do not remember seeing her ever except at the table, and if I had met her upon the street I do not know that I should have felt free to raise my hat, since I had never been formally introduced to her; but at the table I was supposed to see that everything was placed within her reach, and to show her the usual courtesy. Her manner though pleasant, was not inclined to promote intimacy. The boys at this school were undoubtedly better behaved and more mannerly at the table than though there were none but boys present, and this covers the point I am aiming at, which is, that the presence of ladies tends to promote good manners among men. Men and boys among themselves are apt to be rough, boisterous and forgetful, but place these same men among cultured ladies and their manners change at once.

While I favor the association of boys and girls, I can see that the student should not give too much attention to social affairs of any kind. Therefore I advise you to limit the time you spend in calling on or in escorting the ladies. I do not favor early marriages, particularly at the present day, when the young man is expected by foolish people to start on an extravagant scale of living, or more so, than his father enjoyed at the close of a successful career. Therefore I advise you not to pay particular attention to any one lady, but to treat them all alike so far as possible.

As a young man I was particularly susceptible to the charms of my lady friends, and continually considered myself in love with some particular one. I can recall now a dozen or two such instances of youthful affection, which never amounted to anything further than pleasant association. It is easy to find a girl who is sociable and attractive, one you may enjoy spending some time with, but when it comes to getting married you will find it a difficult undertaking. Not that there is a scarcity of marriageable young women, but you will find a scarcity of those who are suitable to become your life-long companion, and at the same time meet the demands of your fancy, or in other words those who enchain your heart with a lasting affection. While I greatly admired and esteemed my lady friends, and thought each new acquaintance might possibly develop into a matrimonial alliance, I was 30 years old before I met the lady who now presides over my household. I was earnestly searching ten years for a wife.

I desire to caution you particularly about encouraging any young woman to think that you particularly fancy her, or give her any reason to suppose that your attentions to her are more than those of an ordinary friend. I have recently gained some information on the subject of marriage, and find that there are far more women looking for husbands than there are men looking for wives. Women have not the opportunity for getting married that men have. Women are ordinarily far more susceptible than men. While you may have a dozen ladies upon your calling list, many of these ladies may have only one regular caller, and that person yourself. I know of no instance of greater sadness than that of a young girl who forms a lasting attachment for a man who cares no more for her than for others of his acquaintance. I do not doubt that many young men cause much sorrow in the world by thoughtlessly paying marked attention to girls that they have very little idea of marrying. At the same time I am

aware that in many cases young men are earnestly seeking for wives, and are hopeful in each instance that the acquaintance may develop into a permanent alliance, but it does not thus develop, and the man retires leaving the lady disconsolate.

A BROKEN HEART.

I recall an instance which illustrates my thought. A young man earnestly searching for a wife, made the acquaintance of a young lady, highly educated, accomplished in every way, a delightful companion, and a daughter of a distinguished family. He became interested in this lady at once, and she appeared to be interested in him. He continued the acquaintance for a year or more, sincerely hoping and expecting that the acquaintance would develop into a matrimonial alliance, but it did not so develop on his part. He simply admired the young lady, and valued her as a friend, but with no lasting attachment for her sufficient to warrant him in proposing marriage. The fact that this lady was highly educated and accomplished, possibly kept other young men at a distance. Certainly the fact remains that she did not receive much attention from other men. Finally this family were about to move to a distant part of the country, and one day the father and mother made some excuse for calling at the home of this young man, and after spending some little time at the place departed. The young man did not think much of this call at the time, but later circumstances suggested the thought that possibly their object in calling was to give this young man an opportunity to express his sentiments in regard to the young lady. A year or two later this young lady died. It is possible that the marked attention of this young man misled the lady, and had something to do with the brevity of her life.

It cannot be doubted that many instances similar to this occur and are often disastrous to the welfare of the girl.

I hope you look forward with confidence to the day when you will have a home of your own and a wife to preside over that home. I consider home life the most sacred thing on earth and the most enjoyable. I believe in churches. It is my belief that churches do much to uplift us and to help form character, but I believe that home does even more than the church if properly regulated and made the most of. No man should be contented to be a bachelor. The greatest ambition of every man should be to establish a permanent home and to make that home for him and his the most attractive spot on earth. I believe in the fixing of one's habitation permanently in one spot. I have no sympathy with people whose tastes demand their moving continually about the country, now living in one city and then in another, now on the Atlantic coast and then on the Pacific. People lose much of the enjoyment of life in their emigration. One should not only make his home lot an attraction, but should make the surrounding country for miles around his own in a certain sense, becoming familiar with the people, the hills, brooks, rivers, ponds and lakes.

If I should die to-night
My friends would call to mind with loving thought
Some kindly deed the icy hands had wrought;

Some gentle word the frozen lips had said;
Errands on which the willing feet had sped;

The memory of my selfishness and pride,

My hasty words, would all be put aside,

And so I should be loved and mourned to-night.

O, friends, I pray to-night,
Keep not your kisses for my dead, cold brow;

The way is lonely—let me feel them now.

Think gently of me; I am travel-worn;

My faltering feet are pierced with many a thorn;

Forgive, O hearts estranged, forgive, I plead!

When dreamless rest is mine I shall not need

The tenderness for which I long to-night.

Belle Eugene Smith.

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MYSTIC VALLEY SEED CO., Medford, Mass.

Love is a day
With no thought of morrow.
Love is a joy
With no thought of sorrow.

Love is to give
With no thought of receiving.
Love is to trust—
Without quite believing.

—Charles Henry Webb.

The New Peach Culture.

There was a time in the country when all it was necessary to do to secure peaches was to plant trees. Nature did the rest. The ground was fertile and full of humus, and cultivation was hardly deemed necessary. This condition of things existed about forty years ago, and I have eaten delicious peaches grown by that natural method in Western New York. Later came the period when peach growing here was given up entirely, it being generally understood that peaches were too uncertain to be profitable. Then again about twenty years ago it came to be understood that peaches could be grown successfully on certain elevated sites near Rochester, N. Y. Certain adventuresome men made large profits from peach orchards and this led to large planting on every hand, and now we find that with improved hardy varieties the peach crop is a profitable one in this locality.

But there is a new era in peach culture with new methods. It is no longer possible to grow marketable peaches successfully by simply planting the trees and giving them no further attention. The new ideas may be condensed into the following:

First.—The new idea peach when planted is headed back by cutting off the young tree within two feet of the ground, leaving simply a stub of the tree two feet high. This pruning is so radical, no one but an experienced peach grower will consent to adopt it, and yet it is the proper thing to do. When the tree is one year old the entire top is cut back one-half in the spring before growth commences. Every year after this one-half of the annual growth is cut off, and the interior of the head is improved by cutting away superfluous branches. When peach trees are cut back and pruned like this, they do not form wide spreading tall trees, requiring no ladder to gather the fruit. The trees become somewhat dwarfed in size, with short stout branches that will carry heavy loads of fruit without breaking, and the fruit can be gathered from a step-ladder, or largely from the ground.

Second.—The highest possible cultivation is given to the peach orchard. Successful peach growers have offered prizes to any person who would find a weed in a large orchard, so thorough is the cultivation. No plowing or other cultivation is done that interferes at all with the roots on peach trees; no plowing should ever be done deeper than two or three inches. Many peach orchardists do not plow at all, but simply keep the surface loose by continuous cultivation with the disc harrow, acme, or spring tooth harrow, or some other similar tool, the object being to preserve every particle of moisture that is in the soil. Cultivation should be begun very early in the season, as that is the time when the trees make the greatest growth.

Third.—The location must be selected with the greatest care. Never plant peach trees in a valley. It is far better to plant them on the top of a high hill, but the slope of a side hill is better than either the hill top or the valley. What is needed is ventilation, or the free circulation of air, in case of danger from frosts and this is brought about by valleys running along the hill sides.

Fourth.—The selection of varieties is one of the most important considerations of late years. The last few years has witnessed the introduction of varieties that are far more hardy in bud than those varieties grown previously. Among these hardy varieties are Fitzgerald, Crosby, Elberta, Hall's Chili and Champion.

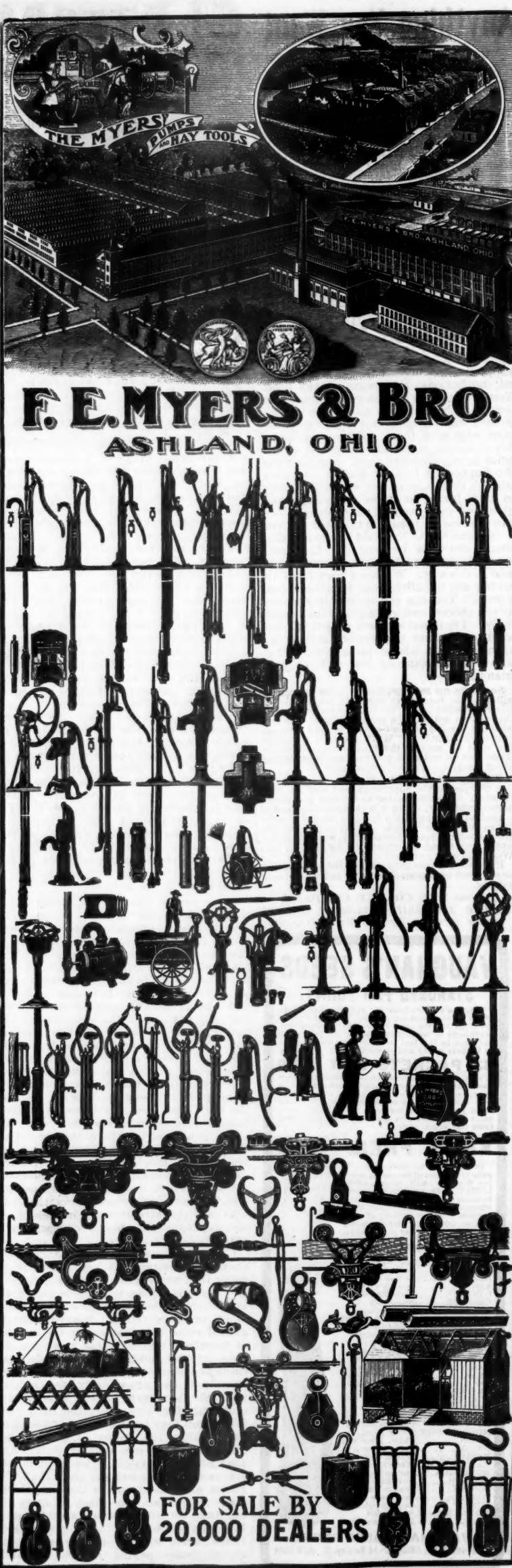
Fifth.—In the new peach culture much attention is paid to thinning the fruit, as well as to advanced methods of marketing. It requires a man of courage to properly thin the fruit of his peach orchard. In many instances more than one-half of the fruit is removed and often three-quarters, in order that the remainder may develop into the largest size and greatest beauty. In Michigan, land that has been used for farm crops many years has been found to be better adapted to peach growing than new land. After the orchard has borne two or three crops, the land should be enriched. Mr. Morrill, of Michigan, applies annually 100 bushels of wood ashes to the acre and about 400 pounds of bone. Those who have the courage to practice the new peach culture find peaches a very profitable crop, and they are never at a loss to find a market for their fruit.

Terms of Leasing Farms.

In reply to a subscriber I will say, that the terms of leasing vary in different sections of the country. Where land is favorably located, near churches and schools or large towns or cities, and the land is fertile, the owner of such land gets more favorable terms than where farms are less favorably located, or where they are less fertile. There are many conditions which might vary the terms of lease. If there is a large and productive orchard on the land, the owner would naturally expect to get a larger portion of the produce or larger cash rent than if no such orchard existed. If the farm has been leased for a number of years to men who have taken no interest in keeping up the fertility, the owner could not expect to make such favorable terms for himself or tenant as though the farm had been better kept.

In this locality, where the owner furnishes everything, including house and other buildings, seed, tools, horses, and other live stock, he receives 2-3 of the products. Some times the tenant markets these products, but other times it is divided at the farm and marketed at the owner's expense. If it is a dairy farm that is leased, the conditions may be changed, depending upon the distance for hauling to market, or how the milk and butter is disposed of, etc. More often the owner furnishes the land, 1-2 the seed, pays the taxes, and half the thrashing bills, the tenant to work out the road tax. In this case the owner and the tenant divide equally the proceeds or produce. The many conditions and stipulations should be inserted into the contract, which should always be in writing. If commercial fertilizers are purchased it is fair that the owner should pay 1-2. It should be stated whether straw and hay or manure may be removed from the farm, and how much land should be devoted to hay, grain, or other crops, otherwise the tenant might desire to plow every acre and sow to grain. Specify in regard to fuel, whether the tenant may cut timber, or use that which is blown down by the wind. Specify what shall be done in case the tenant neglects to give proper attention to the farm and farm crops.

Mr. E. H. Day, a subscriber to Green's Fruit Grower, asks for information in regard to culture of strawberries, blackberries, raspberries and their diseases, remedies, etc., and would be pleased to know which are the best varieties. The question of varieties of all fruits is a vital one, but a difficult one to answer where the answer is expected to apply to a wide extent of territory. For this state Glen Mary, Corsican, Brandywine, Van Deman, Jessie, Senator Dunlap and Clyde are valuable varieties; with us in fact, the most valuable we have found. In black raspberries Kansas, Conrath, Gregg and Nemaha are valuable varieties. In blackberries Minnewaska, Rathbun, Taylor, Snyder and Eldorado are of great value and probably the best in cultivation. In red raspberry Cuthbert and Loudon are the most popular varieties, but Marlboro is a very fine variety in some localities. There are many other valuable varieties of strawberries, raspberries, blackberries. The best soil for these fruits is a sandy loam, that does not harden after heavy storms; but we have succeeded famously in growing them upon our clayey loam. Soil with some clay in it is more fertile than sandy soil. Sandy soil is desirable on account of its being easily cultivated without any tendency to harden. Plant small fruits and all fruits on uplands in preference to lawlands. He asks for a sure cure for San Jose scale. On Long Island, N. Y., they are afflicted with the scale and have become familiar with it. An experienced fruit grower there tells us that they have no trouble in keeping the scale in check, so that it does no injury, by spraying or washing the trees with a solution of whale oil soap—two pounds of soap to one gallon of water, or with crude petroleum. Whale oil soap is the safest thing to use; crude petroleum varies in strength and other respects and should only be used under the advice of a specialist. He also asks about anthracnose. I have seen this disease attacking red and black raspberries; it is a hard disease to fight. We are told by experiment stations, that the remedy is to spray the plantation thoroughly in June and July with Bordeaux mixture. We would advise digging up and destroying a plantation thoroughly affected with anthracnose. This subscriber asks why we have not given more attention to small fruit culture in our paper. We supposed we had covered the ground many times, but when our subscribers desire information let them send on their inquiries and we will attempt to answer them.



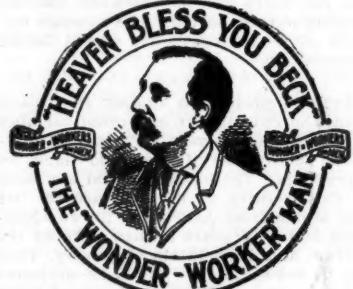
Please mention Green's Fruit Grower.

A WIDE-OPEN LETTER

Specially to that Great Army of Men Who Have Been Hoodwinked and Defrauded by the Worse than Infamous Mountebanks who Disgrace the Medicine Business.

Mr. Geo. S. Beck, Proprietor of "Wonder Workers," the Greatest and Best Remedy for All Kinds of Weakness that the World Has Ever Known, Throws Another Bomb into the Camp of the Sharks Who Prey Upon the Fears of Weak Men, and Offers Their Victims the Benefit of His Great Remedy at Cost.

My Dear Brothers—More than 250,000 permanent cures during the past three years prove that my "Wonder-Workers" are a God-send to men everywhere. There is not a case of Weakness or Nervous Troubles of any kind anywhere on earth (no matter whether caused by overwork, or whether the man be old or young) that "Wonder-Workers" will fail to cure quicker and at less expense than any other remedy made anywhere in the world if simply used (at home, at your work), one tablet at a dose three times a day. They cured me in less than one month's time, at the age of forty-four years, when I, like you, lacked that vitality without which a person is a man only in name, and after I had been nearly ruined by the frauds and fakirs who disgrace the medicine business. I ask you to bear in mind that I am the only man in the world in the business who has solemnly sworn that the medicine he sells cured himself, and that the names of all who buy it will be held sacred forever.



I am the same George S. Beck, living at 420 South Market street, Springfield, Ohio, who is hated by every Electric Belt Impostor, Free Sample schemer, C. O. D. fraud, Free Prescription fakir, and Doctor by Mail humbug in America because of the manner in which I have exposed their infamous schemes. Their only object in making "Free" offers is to get the names of men who are weak so that they may harass them with their impudent letters and lying, filthy circulars; and I, here and now, again challenge any and all of these frauds and poison distributors to thoroughly sift and test my charges of low villainy and palpable fraud in any court of law or justice they may select. If you have had any dealings with them you know that all my charges against them are true as Gospel.

I beg to assure you on my honor as a man that no matter whether you are married or single, old, young or middle-aged; or no matter whether your weakness is caused by overwork, too frequent indulgence in strong drink or tobacco, the use of my "Wonder-Workers" will search every nerve center of your body, renew every tissue, develop every organ, strengthen every muscle, invigorate every function, and bring to you a perfect and permanent restoration of strength and manly vigor. The reason why "Wonder-Workers" do this is because they are a Pure Nerve Food and Tonic, and because they do not contain any phosphorus or any other of the poisons that make the vile nostrums sent out by the frauds and quacks so dangerous to human life. It is perfectly safe to use them at any time or under any circumstances, and their use will not fail to restore natural strength and vigor without any trace of excitement or stimulation in old or young.

Because of the wonderful merit of my "Wonder-Workers," and the fact that I treat every man as fairly in every respect as though he was my own natural brother, I have built up the largest mail-order medicine business in the world in less than three years. I defy any man to whom I sent "Wonder-Workers" to say that I have treated him unfairly in any manner, shape or form. If you order "Wonder-Workers" mention this paper, the publisher of which is hereby authorized to publish me as a fraud and scoundrel if I fail to do exactly as I agree with any of its readers.

The price of "Wonder-Workers" is only One Dollar per box, always cash with order; by express at your expense. It will cost 25 cents to lift them from express office. If you send \$1.15 I send them by mail prepaid, thus saving you ten cents. If you have any doubt about me write to any Commercial Agency, Mr. A. R. Cobough, Cashier of the First National Bank of this city, (the bank of which Hon. Asa S. Bushnell, ex-governor of Ohio, is president) or to any of your friends in Springfield.

GEO. S. BECK, 420 S. Market Street,
SPRINGFIELD, OHIO.



The night has a thousand eyes
And the day but one;
Yet the light of the bright world dies
With the dying sun.

The mind has a thousand eyes
And the heart but one;
Yet the light of a whole life dies
When its day is done.

"Eighty years have passed, and more,
Since under the brave old tree
Our fathers gathered in arms and swore
They would follow the sign their banner
bore.
And fight till the land was free."

—Holmes's "Under the Washington Elm."

Lord Avebury declares that ants that maintain their sobriety make a great distinction in their treatment of the intoxicated stranger and the fellow citizen who has succumbed to his blandishments. He inebriated fifty ants, twenty-five from one nest and twenty-five from another, and put them all into the nest from which one lot had been taken. The inhabitants at once took the helpless strangers and threw them into the water; while those who were citizens of the nest were carried tenderly away into remote corners to recover from their festivity at leisure.

Horses are the most abused of animals; not only because they happen to be the most used and the most useful, but also, and perhaps even more, because Nature, for some mysterious reason, has denied them the power of audibly expressing pain, such as is possessed by the cat or the dog, says Michigan Farmer. Under extraordinary circumstances, says The Road, they have indeed been known to overcome the impediment. The extremity of terror, as when they have been attacked by savage beasts or the sudden-shock of agonizing pain, as when they have been horribly wounded on the battlefield, has sometimes extorted from them a piercing, dolorous, almost human scream, which nobody who has heard it can easily forget. Most horses which die in pain expire in silence, or utter merely a moan or whine.

The galled jade may wince, but utters no cry. The cart horses of our busy cities make no audible complaint under the lash of the whip, the strain of an overload or the stupid jerkings of the rains by ignorant drivers. It cannot be that they lack the will, but they have been denied the power. A few exceptional instances no more affect the general truth of this rule than the case of Baalam's ass provides a proof that all asses (of the four-legged variety, be it understood) possess the power of speech. Practically their dumbness is absolute.

About 1790 Colonel Loammi Baldwin, of Woburn, Mass., while surveying a route for the Middlesex canal, came to a native apple tree on the Butters farm, in Wilmington, Mass., the fruit of which he believed in. After grafting it into his orchard he was free to give the fruit and scions to his many acquaintances. Baldwin's name for his favorite apple was "Pecker," after the marks on the bark of the tree made by the woodpecker. The apple became so generally appreciated in Baldwin's day that at a business meeting of the society, when he was present, a vote was taken that with his consent the apple should be renamed the "Baldwin."

Dr. Bessey presented a paper on "How Trees Came to Nebraska." By the influence of the wind many seeds are moved; other seeds are carried on the water, says E. F. Stephens. The original apples were not made for man. The flesh of the apple was a bait that should tempt to have the apple eaten and thus be carried to new points for growth. The pawpaw, with its edible fruit, is distributed by small animals, and the seed of the hackberry by the birds. The seeds of the ash and the elm drift with the wind. The juniper and the wild cherry are distributed by the birds. The red bud is carried by small animals. The maple with its winged seeds are carried by the wind. Of sixty-five species of trees mentioned, eleven are distributed by birds, five by birds and small animals, twenty-three by squirrels and small animals, twenty-six by the wind. Among the few trees which can be started in the dry prairie sod, the doctor mentioned the bull pine, which succeeds in grassy land without cultivation. More varieties of trees are found in

southeastern Nebraska, indicating that they came into the state from that direction. Dr. Bessey read letters from close observers elsewhere showing the movement of trees and plants is steadily going forward.

A European trade journal not long since published a description of a new process of seasoning wood by electricity. That the method is successful is proved by the fact that the company's shares are now at a premium of 600 per cent. The electrical treatment is said to dispel the sap, its place being taken by insoluble matter which will not decay. It also increases the tenacity of the wood and its resistance to vertical pressure.

There is a large number of professional "bee hunters" in the west and southwest of Texas. Small caves and dark recesses formed by shelving rock abound along the waterways of the Texan rivers. They are the natural hives of the wild bees, and take the place of the hollow tree trunks of the forest regions of the northern country. These caves are used year after year by the bees, and in many instances they have been found to be literally filled with honey.

Notwithstanding the popular belief in "equinoctial storms," scientific investigations fail to show that the passage of the sun across "the line," that is, the equator, which constitutes the vernal equinox when the sun is coming north and the autumnal equinox when it is going south, is accompanied by any distinctive atmospheric disturbance. A recent study of the periodicity of cyclonic winds in England, covering the years from 1874 to 1890 inclusive, shows, however, an apparent relation to the equinoxes. The greatest frequency and force of the winds occur about two weeks before the vernal, or spring, equinox and three weeks after the autumn equinox.

Among the birds that are living a higher life, it is the female bird who carries the hood during building time. The husband sits about on twigs and tells her how to do it. A woodpecker should be a very pariah among decent birds. The moment a woodpecker's mate gets through nesting, he tells her "to take her clothes and go"—then he establishes himself in the house she has built—and she goes and builds another for winter. She is fool enough to take another woodpecker to boss the job, if she can find one willing, but as a general thing all the male woodpeckers at that time are as comfortably provided for as her legitimate spouse, so she has to work without getting kicked for it.

Both cattle and hogs should have at all times full access to salt.



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ROCHESTER, N. Y., MARCH, 1902.

EDITORIAL

X This cross appearing on the paper sent you is intended to call your attention to the fact that this is the time when nearly all of the subscriptions to Green's Fruit Grower expire, and that we desire you to renew your subscription at once. We have kept our promise, which was to improve our paper as the number of subscribers increased. We have incurred considerable expense and rely upon you to sustain us in our efforts by sending in your subscription without delay. Please find in this issue an order blank, which please fill out and send to us with registered letter or postal money order. We have subscribers which have been entered for 3, 4, or 5 years in advance and there are a few others which do not expire with this issue. None of these friends need be alarmed on reading this notice, since they are correctly entered on our books.

Now is the time to make preparations for spraying fruit trees, vines, plants, etc., during the coming season. Orchardists usually spray their trees once before the leaf buds open in the spring. Those who defer buying their spray outfits until the moment they want to use them are always behind time. "An ounce of prevention is worth a pound of cure," in spray operations. Remember that if you send your order in during the busy season you cannot expect to get it filled immediately every time, therefore you are liable to meet with delays. The same advice will apply to your purchase of berry boxes and shipping crates, grape and peach baskets, etc. Order a reasonable supply at once and keep a fair supply on hand all the time. If you have a surplus it will be no loss.

Do not forget when you plant your orchard this spring to locate it upon a rolling piece of ground somewhat elevated. In this section of Western New York I should prefer a hill side or hill top, planting on the windward side a row of evergreens or poplars to shield the orchard from the wind. I intend repeating my former advice which is, that all kinds of fruits be planted on upland naturally drained in preference to lowland, and yet it is possible that in some localities lowlands may be even preferable. The danger of lowlands is from late spring frosts and more liable to severe freezing in severe winter.

Do not fail to prepare thoroughly the soil where you intend to plant to any kind of fruit trees, plants or vines. Any time spent before planting in carefully plowing and thoroughly pulverizing the soil is profitably spent. You never have so good an opportunity to cultivate the entire surface as you will before the planting is done. There are people who would prepare the ground carefully for sowing wheat or planting corn who would not deem it so necessary in planting trees, etc., but I assure you that it is equally necessary to have the ground as carefully prepared.

Green's Fruit Grower is often asked about the advisability of planting sod ground, recently plowed, to fruit trees, etc. I should prefer that the sod be plowed a year previous to planting, but if this has not been possible you may yet prepare the sod ground by deep plowing and the most thorough cultivation for planting this spring. But remember that the sod ground must receive double the cultivation in order to prepare it for planting, than the land would require were it not for the sod, and it must be expected that there will be some roots of

grass which will appear as the summer advances. If you plant upon newly plowed sod ground be very careful and not place any of the old sod next to the roots of the trees, and take more pains than ordinarily in packing the soil firmly about the roots. This firming of the soil about the roots is one of the most important features of planting.

The selection of varieties is one of the most important features of orchard planting or planting for home use. This is a question which no person living a long distance from your place can advise. Better ask your neighboring fruit growers. For family supply I should advise planting ten or twelve varieties, but for a commercial orchard I should not care to have over four to six varieties. In buying trees or plants do not be governed entirely by the price asked, since quality is very important in this matter. Buy of some one of whom you are satisfied you will get trees true to name.

Do not plant an orchard of any kind without first determining in your own mind that you will give this orchard careful and thorough attention in the way of pruning, spraying, and cultivation.

Most people after planting an orchard plant among the trees a crop of beans, potatoes, corn, or some other similar crop; such cultivated crops do not injure the orchard so seriously as crops of oats, wheat or other grain, which should never be sown in a young orchard, but any orchard will succeed better if no crop is planted among the trees, the entire land being given to the orchard from the start. Remember that the largest growth in orchards, berry fields, or vineyards is the strongest growth. Since May and June are the months when trees are growing most rapidly, see to it that cultivation is begun early that this early growth may be as vigorous as possible. Early summer is the time to push the growth of all fruit growing plants, vines or trees. During late fall it should be the policy of orchardists to restrain the growth in order that the wood may be well ripened and prepared for the cold blasts of winter which would be liable to injure the trees were they growing rapidly at the close of the season.

Green's Fruit Grower is often asked what fertilizers to apply, and how much per acre. This question should only be answered after we had full knowledge of the soil, and this we could only learn of by several years' experience in cultivating. Our rich wheat and corn growing soil in Monroe county, N. Y., will grow good apples and other fruits without the application of any fertilizer, if it has not been exhausted by previous crops, but even here orchards, etc., will do much better by applying a dressing of stable manure, or from 300 to 500 pounds of phosphate per acre. But there are other localities where the soil is lighter and more sandy where you could not expect to grow profitable crops of fruit without above fertilizing. If the soil is greatly impoverished it may need 1,000 pounds of phosphate per acre or a carload of manure per acre. Never place fertilizers of any kind in contact with the roots of trees, plants or vines.

He is a wise planter who, after his trees are planted applies a forkful of straw manure on top of the ground, over the roots of the trees recently planted. This much of manure will do more to keep the ground moist about the tree than would a palful of water applied daily, at the same time the manure enriches the soil and adds further to the growth of the tree. Be careful not to bank up against the trunk of the tree with manure, since I have known the bark of trees to be killed in this manner. Begin to train your trees or vines from the beginning, nipping back each month's shoots that are growing too rapidly and rubbing off shoots that appear where they are not wanted.

There are many implements for cultivating orchards, vineyards, berry fields, etc., which were unknown ten or twenty years ago. It will pay you to purchase the best implements on the market for this purpose. The Acme harrow, manufactured by Duane H. Nash, of Wilmington, N. J., is an excellent implement for levelling the soil and destroying the young weeds just starting in the orchard. The adjustable disc harrow, manufactured by the Johnston Harvesting company, Batavia, N. Y., is an indispensable tool for working in orchard trees; the Planet and Iron Age one-horse cultivators are also indispensable to the fruit grower. A manure spreader is needed, also a wagon that will turn in very short limited spaces is also indispensable when you go to gather the fruit. We have

used a Gang plow and iron framed harrow with good effect.

Readers of Green's Fruit Grower often write for information in regard to cold storage houses for keeping apples, pears, grapes and other fruits. Since the question of cold storage houses has now become one of which none but an expert can speak with authority, we have not encouraged our readers to build moderate sized or small cold storage houses, not knowing exactly what method to recommend, since we know but little about any method except the ammonia process practiced in large cities, which is very expensive. Madison Cooper of Minneapolis, Minn., is an expert in the construction and management of cold storage houses, cooled with ice and salt, and we take pleasure in referring our correspondents and readers who are interested in this subject to this gentleman, who has devoted many years to the subject. If our readers will write him, I am confident that you will receive prompt and satisfactory replies on this important subject.

People who work outdoors, as do farmers and fruit growers, can digest food that their wives and daughters, whose time is mostly spent in the house, cannot digest. Even he who works outdoors might enjoy better health if he would select a more judicious diet. Why should not doughnuts and rich pies be banished from the table? Cookies are better than doughnuts, and puddings are better than pies. Hot bread should be avoided. Bread twelve hours old is much more easily digested than new bread. Pork upon the table once or twice a week, or beans once or twice a week is enough for that class of food. Many people are made bilious and dyspeptic at Christmas time, not because they have eaten turkey, but because they have filled themselves with the rich greasy dressing of the turkey, and the rich gravy, in addition to numerous other enticing dishes. A certain amount of acids with our food are healthful, such as pickles of various kinds, but it is easy to overdo in eating this class of food. Sugar is nourishing and strengthening if eaten wisely and discreetly, but it is very easy to overeat sweets, and this leads to biliousness and indigestion. The study of the house wife should be to avoid those dishes which cloy and clog the system, and turn to those more helpful and equally enticing foods that are far more nourishing, and which are much more easily digested. Of late years there are numerous cereal foods which can be purchased already cooked, that can be easily and quickly prepared for breakfast. I use in my family cracked wheat, oat meal, or rolled oats, and various kinds of preparation. The last and best is malto-vitos, which is made of various kinds of malted grain, ground, cooked and pressed into flakes. The family with a package of this food in the house simply needs milk and cream to add to it to make a satisfactory meal. Shredded wheat biscuits are a wholesome dish for breakfast.

An outrageous compliment.—A well-known Rochester man, wealthy and talented, had at a public meeting the night previous taken a part of which his friend approved. The appreciative friend, meeting the public spirited gentleman surrounded by a number of companions, made this remark: "You are a bright man Jones! I want to tell you, you have something in your head besides lice."

Almost every day I get inquiries asking what varieties of apple, peach, pear, plum, cherry, also what varieties of red and black raspberries, black berries, strawberries, currants, etc., do you advise to plant on my farm in Vermont, or my farm in Texas, or Dakota, or Oregon. Now allow me to ask how is it possible for me living at Rochester, N. Y., and having no experience in growing fruits in Vermont, Texas, Dakota or Oregon, to advise you just what to plant. Please remember that varieties suited for New York State may not be the best for Vermont, Texas, Dakota or Oregon, and that varieties in the northern part of any state may not be desirable for the southern portion of the same state, or often those varieties which succeed in one place may not succeed so well in another locality fifty miles distant. Therefore, when our readers ask us these questions we feel humiliated, and somewhat burdened with the sense of obligation resting upon us which we cannot fulfill. How often I have asked my readers to inform themselves in regard to varieties for their peculiar localities by visiting fruit growers in their own vicinity and getting advice from them.

I am a lover of horses and am enthusiastic over their many noble charac-

teristics. Yesterday I saw a big black team drawing up a long steep hill about three tons of coal. The driver was perched upon the top of the wagon and I stopped in my walk to see if he would rest the team; but he did not do so on his way up the hill, nor after he had reached the top. I looked with admiration upon the steady draught of this team, each foot being planted firmly upon the slippery pavement, every tendon strained to its utmost. Surely the horse is a wonderful animal. Think for a moment of the useful work accomplished by the horse, and of the condition of man were he not blest with the horse. And yet originally the horse was not much larger than the sheep. The horse like the cow, hen, swine and other animals has been greatly improved in size and strength as the centuries have rolled by.

Wheat and rye. The average yield of wheat for 1901 was 14.8 bushels. In 1900 the yield was 12.3, for 1899 12.3 bushels, 32,000,000 acres were sown to wheat for the coming season, a small increase over the year 1900. 1,250,000 were sown to rye last fall which is about the average acreage according to the government reports. Potatoes are not grown in this country in sufficient amounts to supply the demand. The average production is about 211,000,000 while the average consumption is about 212,000,000 bushels. Potatoes have been more largely imported from Scotland and Ireland this season than for many years owing to high prices. The largest production of potatoes in the past ten years in this country was in 1895 when over 297,000,000 bushels were grown. The largest importation of potatoes from Europe in the last ten years was in 1893 when 3,000,000 bushels were imported. The average imports of potatoes will not exceed 700,000 bushels.

Are you prejudiced against the black man, the red man or any other member of the human family? Prejudice indicates narrowness of mind and lack of knowledge. The black man did not come to this country of his own accord. He was stolen from Africa and for two hundred and fifty years he has suffered the torture and degradation of slavery. They are no worse than we would be subjected to the same conditions. Many of these black people have distinguished themselves in the professions. They make excellent physicians, and have often risked their lives in attending yellow fever patients in Memphis and elsewhere. They are noted for their eloquence, thus many are prominent clergymen and lawyers. The Methodist church, of which I am a member, has for several years been at work organizing schools in the South for educating colored people, with most excellent results. There are now forty-five of these schools, many of them having two or three hundred students each. Some of the poor black people walk from the mountains a hundred miles, barefooted and in rags, to attend these schools. Is it not an honor to belong to an organization which is doing many kinds of work similar to this among the freed men of the South?

Man can live on food that costs him but 3 cents per day and enjoy good health. I once knew of a man who was troubled with indigestion. He was finally advised to adopt a diet of boiled wheat exclusively. He bought a bushel of wheat, placed a few quarts in a kettle of water and boiled it over the stove for several days. After this long boiling the wheat turned into earthen vessels formed a jelly like mass. This invalid's food consisted of this boiled wheat taken at morning, noon and night eaten with a little milk and nothing else. The actual cost per day was only 3 cents. On this diet the invalid grew strong and fat, his indigestion troubled him no longer.

Coon hunting has ever been a favorite pastime with farmer's boys. When I was a boy on the farm I engaged in many coon hunts, and can tell many stories about coons. The Farmer tells about a boy who discovered evidences of coons in a tall tree. He prepared to climb the tree with tree-climbers attached to his feet. When asked how he was going to get the coons out, he smiled blandly but made no reply. With great apparent ease he ascended the tree to the hole, then drew from his pocket a bunch of fire-crackers and after lighting a match he set them on fire and dropped them down into the hollow of the tree. In a short time they began to explode, and out came the coons one at a time, coughing and sneezing, while Fred knocked them off, and they were despatched by the men and boys on the ground. Thirteen coons, little and big, were thus captured in a few minutes.

**WOMEN'S DEPARTMENT.****The Farmer's Wife.**

Written for Green's Fruit Grower.

The work of the farmer has been greatly changed during the past twenty years by improved machinery. By means of these improvements the farmer can conduct his operations with far less expenditure of labor, but how is it with the farmer's wife? Has she been assisted in like manner or has her work been lightened by improved machinery or inventions? I know something about the work of a farmer's wife, having been born and brought up on a farm. My opinion has always been that if there was one person upon the farm more seriously overworked than another it was the farmer's wife. While the farmer's work closes at a reasonable hour in the afternoon, the farmer's wife is kept busy until 8, 9 or 10 o'clock daily, and often she was the first one up in the morning. What are the inventions I will ask that have been made to help the farmer's wife in the kitchen-work, or in her house work of all kinds? I cannot think of any improvement. She makes her bread, pies, cookies and often her soft soap in the old-fashioned laborious way. The potatoes are mashed or baked, the meat fried, broiled, baked or boiled just as they were one hundred years ago. The work of the wash-day is pretty much as it used to be on the farm. In cities there is a fountain of water flowing in every room in the house, and stationary stone wash tubs with a faucet in each for hot and cold water, with pipes for drawing off water at the base of each stationary tub, which greatly lessens the work on wash day; but such devices are not known in the country, or are hardly possible there. The farmer's kitchen and pantry should have every possible convenience for the housewife, so that she may take as few steps as possible. Wood or coal should be placed convenient to her hand. No woman should be compelled to go down cellar and carry up heavy hods of coal, or armsful of wood, and yet I know many women who not only have to do this but who cut their own wood as well. No woman should be obliged to lift pails of water or boilers or tubs of water on wash day. The man who allows his wife to do such lifting is helping to shorten her life and helping to dig her grave.

Washing Baby's Flannels.

Written for Green's Fruit Grower by Request of a Young Mother.

The baby's underwear should be of the finest and softest of flannels, and kept in the best possible condition by washing it properly, but a young mother

Nothing Better—Because it is Best of All.

For over sixty years Mrs. Winslow's Soothing Syrup has been used by mothers for their children while teething. Are you disturbed at night and broken of your rest by a sick child suffering and crying with pain of Cutting Teeth? If so send at once and get a bottle of "Mrs. Winslow's Soothing Syrup" for children Teething. Its value is incalculable. It will relieve the poor little sufferer immediately. Depend upon it, mothers, there is no mistake about it. It cures diarrhoea, regulates the Stomach and Bowels, cures Wind Colic, softens the Gums, reduces Inflammation, and gives tone and energy to the whole system. "Mrs. Winslow's Soothing Syrup" for children teething is pleasant to the taste, and is the prescription of one of the oldest and best female physicians and nurses in the United States, and is for sale by all druggists throughout the world. Price, twenty-five cents a bottle. Be sure and ask for "Mrs. Winslow's Soothing Syrup." 1840-1901.

WOOLEN

FROM LOOM TO WEARER.
If you have always bought cloth at a store, TRY THE MILLS where it is made.
We make cloth for Ladies' Skirts and Suits, Men's Suits and Overcoats.
No middlemen—only our mill profit to pay.
Express prepaid east of the Missouri River and north of Toledo.
Tell us what garment you wish to make and we will send samples and descriptive booklet free.

PASADIC WOOLEN COMPANY,
South and 3rd Streets, Passaic, New Jersey.**CLOTHS**

writes me that hers has been ruined in the first wash.

The following method has been used with success for many years: Use water as hot as you can bear your hands in, and make a strong hot suds of pearline and rain water, hot, (not boiling water,) it purifies and cleanses flannels.

Wash the little garments through two hot suds, plunging them up and down and rubbing gently between the hands.

Rough usage thickens the texture. Soap should never be put directly upon flannels.

Rinse through clear warm water—and pass the pieces through a rubber wringer. Before hanging them out, stretch and pull each piece into shape, and the tiny wool fibres will not interlace, causing them to get hard and shrunken.

Choose a sunny dry day. I do the work as speedily as possible, and hang out doors in a breeze. S. J. H.

Farm House Decorations.

Written for Green's Fruit Grower by Dallas H. Reading.

Now is the time to brighten up the walls and interior woodwork of the home. If the paint is old, badly worn and off-color, go to the store and buy a gallon of good ready-to-use inside paint, and a good brush, and begin in the kitchen. When that is all painted, go into the dining-room, the bed-room, the sitting-room and the parlor, and treat them all to a fresh coat of paint. If one gallon will not reach so far, get more, and keep on with the good work. When the painting is all done you will say: "See there, I have brushed over onto the paper, and spoiled it." Don't worry: that's what I expected. That paper has been on the wall since grandpa was a boy, and it is old enough to have a rest. Now go to the store and buy some wall paper for each room. It need not be expensive, but should be neat, bright and cheerful. Pretty paper can be brought for 10 cents per roll, and from that price upward, as far as you wish to go.

Now hang the paper. You can do it yourself, if you have any ingenuity in your make-up, and exercise a little care and patience. If you really think you can't do it, go to your local painter and paper hanger. He is not very busy now, and will be glad to do your work. He will have time to do it well. After the paper is hung, you will see that the old mowing machine chromo, which has hung in the same place on the sitting-room wall since 1879, is entirely out-of-date, and wholly unsuitable for such a place. Leave it down. That old wall map of the United States of America, printed before the Louisiana Purchase, torn and yellow with age, is not the proper thing for children to consult while studying modern geography. Leave it down, too. You will notice other old pictures and things that are no longer beautiful to look upon, and which do not harmonize with new paint and paper. Leave them off the wall, and go and buy something new, for a change.

Wall pictures are very beautiful, and very cheap. Ten dollars will buy enough nice pictures for three or four rooms, if care and taste be exercised in making your selection.

When the pictures are bought and hung up the old house will look like your cousin's, in the city. It will be clean, bright and pretty, and the cost will be surprisingly small. If you do all this now, while days are short and evenings long, you will enjoy it a great deal before the rush of spring work comes, and when spring does come, this will be done, and you will not be bothered with it.

Warning to Young Wives.

Written for Green's Fruit Grower.

I was indignant, I reread that article, "What One Wife Did," I nearly boiled over. If our good editor had not added some good sound reasoning, and happy hits, I am afraid my cherished paper would have been torn into bits and thrust in the fire. Mistress, cook, laundress, weaver, nurse girl, gardener, chore boy and hired man in general, besides several other occupations. What were her husband and boys doing in the morning all the time she was milking and getting breakfast? She conveys the impression that as "work does not kill" other women can do the same if so inclined. If her boys have grown to manhood with that idea, may the Lord have pity on their wives, for all women cannot work as did this woman. Not more than one in five thousand of pure blooded American women could do it, and succeed in raising her children.

This woman "lost three of her children in infancy." The marvel is that she did not lose the eighth. I am sure any farmer owning choice stock would

have more regard to their offspring than to allow them to be so overworked.

Now, if there is anyone on the face of this broad earth that I envy, anyone that can arouse all the jealousy within me, it is a strong healthy woman that can "just pitch in" and do a hard day's work whenever it is needed, and as often as she chooses, with no danger of being laid up for repairs or paying the penalty with days of suffering, thereby hindering far more than she has helped. "So work does not kill." I am in danger of boiling over again. There is so much I want to do. So much that needs doing that I cannot afford to hire done, and I get desperate and "go at it," just one day—and my good doctor gives me a lecture, and says "It is no use trying, you can never be a work horse. You have no strength, no endurance. But if you will be good and take things easy and not fret at what cannot be helped, and don't try to sweep but one room in a day, and avoid all lifting, lugging or reaching, or getting down on the floor or ground to work, sleep a good deal, and be out in the fresh air all you can, you may be quite comfortably well and perhaps help along by your good judgment and thoughtful economy, if you cannot by your manual labor. Now, if this industrious woman was obliged, for just one year, to change places with anyone of a thousand delicate wives, wives that long, oh, so much, to help their hard working husbands, wives exceedingly fond of flowers, of well kept lawns and gardens, of everything beautiful indoors and out, wives that understand perfectly well how to care for all these things, besides numberless homemaker duties, and writh in anguish because they are powerless to do all this work; I repeat, if this "industrious woman" could change places with such a wife, she would, at the end of the year, thank God, and continue to thank Him to her dying day for the precious gift of health and strength. He had bequeathed her, and she would make such good use of the priceless gift that she would never know the bitter anguish and keen regrets of a dear friend, who said to me, as she followed the remains of her only, and much beloved daughter to its last resting place, "It is my own fault. There is no one to blame but myself. I was so bent on getting ahead in the world that I worked myself almost to death before Annie was born. She had no constitution and so fell an easy and early victim to consumption."

Daughter of an Overworked Wife.

"I can forgive, but I cannot forget," is only another way of saying: "I will not forgive." A forgiveness ought to be like a canceled note, torn in two and burned up, so that it can never be shown against a man. There is an ugly kind of forgiveness in the world—a kind of hedgehog forgiveness shot out like quills.—Beech-er's Life Thoughts.

The Bible is a storehouse of rich imagery and splendid words, of style both simple and ornate, and as literature alone, apart from its spiritual elevation, will repay the search of every student. Read the Bible and Shakespeare, and you will find yourself able to converse well.—Ladies' Home Journal.

A man stepped up to a well-known preacher and said: "Well, sir, I am an evolutionist, and I want to discuss the question with you. I am also an abolitionist. I believe that when I die that will be the end of me."

"Thank God for that," exclaimed the minister.

When people fly from the ills they have they should not fail to secure a return ticket.

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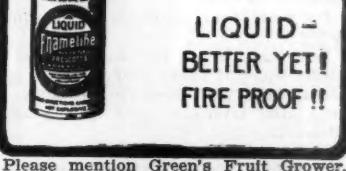
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23 BULBS

- 1 New Spotted Cala, 1 Beautiful Begonia, 1 Double Pearl Tuberose, 2 Butterly and 2 Hybrid Gladioli,
- 2 Fine Red Oxalis, 2 Sweet Peas, 2 Sweet Pea mixed.
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If you sell two collections and send us \$10.00, with name and address of each purchaser, we will send you—Free—another complete collection as you desire.

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Bee and Flower Growers,
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**RED CALLA AND YELLOW CALLA, 50c.**

We are the only house offering these beautiful Callas this year, and we offer them at a price never before attempted by any seedman.

RED CALLA.—Can you imagine anything more beautiful than a bright red calla, with foliage variegated most artistically? 30c. each.

YELLOW CALLA.—As a foil plant this calla excels the fancy Leeks, and in the leaves marked and veined in a fashion never before seen. The flowers measure from 8 to 12 inches and are a beautiful green color. 20c. each.

YELLOW CALLA.—One of the rarest roses in culture. The beautiful yellow flower, with jet black centers, is indeed charming. 30c. each.

CALIF. FRAGRANCE Flowers are very large, pure white and sweet smelling. 20c. each.

SPOTTED CALLA.—This is the ever blooming calla with spotted leaves; easy to grow and always in bloom. Enormous size bulbs 20c. each.

SPECIAL OFFER.—For 50c. we will send the Set of 5 Callas, by mail, postpaid, together with our Colored plate Catalog. All Blooming Bulbs.

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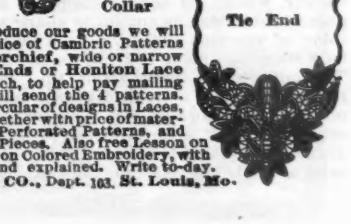
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EDITORIAL
CONTINUED.

Interview with a Pear Grower.

The editor of Green's Fruit Grower had a brief talk recently with David K. Bell, one of the most successful pear growers of Western New York.

"What average annual profit does your pear orchard yield?"

"My pear orchards are of various ages, since I am increasing the acreage each year, therefore it is difficult for me to answer your question concisely, but I will say that I have eight acres of pears mostly standard in full bearing which yield me an annual income of \$200 per acre."

"Do your pear orchards bear annually?"

"Yes, there is not the least trouble in getting crops of pears every year if you cultivate the land properly, keeping it fertile, and trim the trees each season judiciously."

"I have noticed your method of pruning which is about perfect. I see that you cut back the new growth of each season one-half or more every spring, cutting out superfluous shoots or branches, but what would you think of heading trees back when planted so that they will throw out branches close to the ground?"

"The tendency now among fruit growers is to keep the top of fruit trees lower down so that the fruit may be more easily handled and trees more easily sprayed, but I would not favor having the trees branch close to the ground, since it would interfere with cultivation."

"But the ground would need no cultivation where trees branched low and shade was dense, since weeds could not grow in such a place?"

"Very true, but it would be difficult to get around or between these low branched trees without injury to the branches or knocking off the fruit."

"Are you able to give your pear orchards all the cultivation you desire? I notice your orchards appear to be under high cultivation."

"No, I am not able to cultivate my orchards as thoroughly as I would like. In this locality the soil should be stirred thoroughly, with a disc harrow or cultivator, soon after every rain, and frequently during dry spells, and this would necessitate keeping a large number of teams which I could not afford. In California it is entirely different, since they have but little rain there a little cultivation goes a long ways. Weeds do not grow there as they do here and soil does not become hardened by heavy storms."

"What are your favorite varieties of pears for market?"

"My favorites at present are Bartlett, Clairgeau and Bosc, yet I do not confine myself entirely to those varieties. I have in my orchard Kieffer, Duchess, Bartlett Seckel, Worden Seckel and many other varieties."

"You took prizes at the Paris exposition I understand?"

"Yes, I was informed by Colonel Brackett, who had charge of the American exhibit at Paris, that I was entitled to a silver medal, which medal has not arrived. Possibly it will be like the gold medal awarded me at the Pan-American for my sheep. I have been advised that this gold medal cost \$175 and that I will have to pay for it if I get it."

"Now a word about a Columbia pear which is sent out by an Ohio firm as a new variety. So far as I am able to judge the pear thus named Columbia is the Bar Seckel which originated with Jacob Moore. There is an old pear called the Columbia, a winter variety which is described in Barry's Fruit Garden. By the way a fruit grower told me the other day that there was a new pear which I should plant since it was valuable, and the name of it was the Bosc. I told him that the Bosc was not a new pear, but he declared that it was, and yet Downing traces it back nearly one hundred years. The fact is, the Bosc pear, though one of the most valuable varieties on earth is very little known to many fruit growers, therefore they may be somewhat excusable in deeming it a new variety, since it is new to them. It is a pear of large size, beautiful in shape and color, of superior quality, a good keeper, long stem that holds it firmly to the tree. The only weak thing about the Bosc pear is, that it is crooked grower in the nursery, therefore is not popular with nurserymen. It generally has to be top grafted at extra expense. Bosc pear sells at higher prices than any other."

Trees Along Line Fences.

On the ten-acre lot near the city of Rochester, which I bought not long ago, I have planted several hundred fruit trees close to the line fence on all sides and at the farther end. It is surprising how many trees can be placed on the border of a field like this; it is also surprising how such planting of fruit trees on the border beautifies the field. But the question is, how about the legal right as regards trees planted so closely to land occupied by others? Surely the roots of these trees as planted will encroach upon our neighbor's land, and the branches will hang over the adjoining land and shade it. The question is, what remedy has my neighbor, or what objection can he make? It has long been settled by law, that the owner of land has a right to plant trees upon it as close to the line fence as he chooses, and no one can prevent him from such planting. If the roots extend into the neighboring lot owned by another man, the other man may cut off those roots. If the branches extend over the land owned by another person, that person has a legal right to cut off the branches that thus encroach upon his territory, but it has been well established in the courts that no person has a right to pick the fruit from these trees which I have planted on the border of my lot but myself, even though the fruit hangs over my neighbor's land. But here another interesting question arises; the man who owns the land adjoining, over which the branches of my trees extend, may prohibit me from treading on his soil in gathering the fruit. If I can gather it by climbing into the trees and reaching out over the ends of the branches without touching his ground, the owner of the land over which the branches of fruit hang can raise no legal objection. But there are few instances where adjoining owners of land object to the planting of fruit trees close upon the border of their land. Fruit trees are attractive objects, and are desired by nearly every one.

At a recent Ohio State Horticultural meeting, as reported by Ohio Farmer, M. O. Hadden, of Kelly's Island, where San Jose scale is prevalent, gave his experience in fighting the scale. Mr. Hadden is a large peach grower, and has previously used the whale oil soap treatment. He used the whale oil soap for four years on his large peach orchards with great care and diligence, but was not successful in checking the scale. The past year he used crude petroleum oil and water applied with a spray motor pump, mixing 26 per cent. of oil with 74 per cent. per water, the pump mixing the oil and water at the point of escape, as thoroughly as cream is mixed with milk. In one season with crude oil treatment, he has checked and diminished the scale so that he no longer fears it.

Professor J. E. Green, of the state experiment station, gave his experience. He could not recommend whale oil soap, and stated that orchardists were abandoning it; but he was convinced that crude petroleum oil was an up-to-date remedy when diluted with water as has been stated. He said that apple trees would endure more oil than peach trees.

Use a fine nozzle, begin at the top, spray downward, touch all points, and stop before the oil drips or runs down the limbs and body. If there is wind, spray from one side and let spray drift thoroughly through the trees, and as soon as the wind changes spray from the other side. (This applies in all kinds of spraying.—Eds.) As the oil can be used at any time during the winter this two-sided spraying with it is entirely practicable, though it is not so with the soap since that must be applied only just as the buds begin to swell. Do not expect to kill every scale, but to hold them so in check that they will do little if any harm. Apple trees will endure more oil than peach trees, but it is not necessary or wise ever to let the oil run down the limbs and bodies of the trees. The hired man may need to be cautioned every 15 minutes—but, said Professor Green, I have lots of faith in the man who holds the nozzle on his own trees.

Green's Fruit Grower advises you not to spray with oil until just before buds start to grow in the spring. Then cut back the tops of infested trees closely before spraying. It will be easy work to spray when tops are removed. This serious heading back will not injure the trees. As there are many kinds of small scale insects similar to San Jose scale, do nothing until an expert gives his decision. The Palmer scale closely resembles San Jose scale. Only an expert can distinguish the difference.

It's a lucky thing for the average man that he doesn't know some of the things that other people know about him.

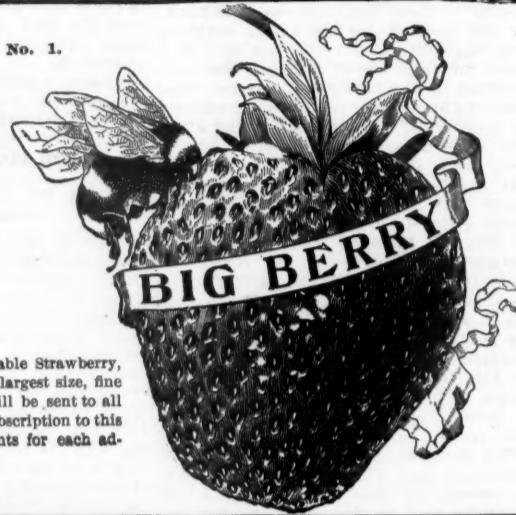
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We offer three hardy two-year-old outdoor rosebushes, which will blossom same year planted, and will be of the choicest varieties. These bushes will be sent to all who send us 50 cents for one subscription to this paper one year. We will select an assortment of colors from the following hardy hybrid perpetual varieties: General Jacqueminot, Prince Camille De Rohan, Coquette Des Blanches, Coquette Des Alps, Paul Neyron, Mrs. John Laing, John Keynes, La Reine, La France. The selection must be left entirely with us.



Premium No. 3. Tree and Grape Vine Pruner.

We offer the Levin Pruning Shears, being well tested by Chas. A. Green, best of all pruners, to all who send us \$1.25 for one subscription for Green's Fruit Grower for two years, or two subscriptions for one year. Note that everything in the way of premiums offered on this page is sent by mail, post-paid by us.



Premium No. 4.—Red Cross Currant Plants.

Four well-rooted plants of the new Red Cross Currant, the largest and most productive red currant, very vigorous in growth, clusters long, will be sent to all who send us 50 cents for one subscription to our paper for one year. Add four plants for each additional subscription sent at 50 cents each.

Premium No. 7.

A Scientific Microscope—This microscope is specially imported from France. As regards power and convenient handling: good judges pronounce it the best ever introduced for popular use. The cylindrical case is manufactured from highly polished nickel, while there are two separate lenses—one at each end of the microscope. The larger glass is a convex magnifier, adapted for examining insects of various kinds, the surface of the skin, the hair, fur or any small articles. The other lens is exceedingly powerful and will clearly delineate every small object entirely invisible to the naked eye.

Every farmer, family, school, and teacher should own a microscope. Send us \$6 for microscope and subscription to Green's Fruit Grower 1 year.

Premium No. 5.—Rubber Stamp.

With your name and address. This is a valuable premium. It is a nickel-plated machine which you can carry in pocket, with self-inking rubber type, which stamps your name and address on envelopes, letter-heads, etc., so that your letters cannot go astray. Send to all who send us \$1.00 for one subscription for two years or two subscriptions for one year.



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Earliest and best of black grapes. A wonderful producer of fine fruit, which sells for highest price. Vine vigorous grower, fruit black, large bunches, and fine flavor. We have well-rooted vines of Campbell's Earl, and will mail two vines for each subscription sent us. Add two vines for each additional subscription sent at 50 cents each.

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We offer your choice of Green's Books or Treatise, paper covers, if you will send us 50 cents for one subscription to Green's Fruit Grower. These books are as follows:

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Premium No. 9.—Green's Six Books—On Fruit Culture, devoted to Apple, Pear, Plum, Cherry, Raspberry, Blackberry, Strawberry, Currant, Gooseberry and Persimmon Culture. See advertisement in another column.

Premium No. 10.—American Poultry Keeping—A new book by Chas. A. Green, prepared with great care, covering all the principal points of Poultry Keeping. See advertisements on other pages of all these books.

NOTE THIS OFFER—Four Monthly Journals for about the price of one—Green's Fruit Grower will be sent monthly for one year, together with a year's subscription to Farm Journal, Vick's Family Magazine, and American Poultry Advocate, all for 60 cents.

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Any one desiring to read the details of this public test can obtain copies of the papers by writing to Dr. Mott for them.

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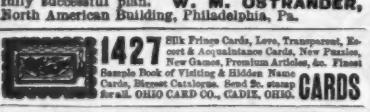
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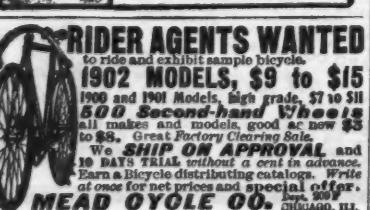
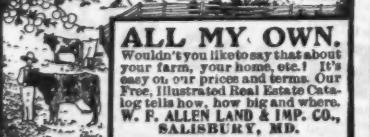
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Rugs That All Can Afford.

Written for Green's Fruit Grower by Clara Hammond.

This article is not intended for those fortunate women who have only to choose their rugs from the expensive assortment shown by the large carpet houses in our cities, but for those whose ingenuity must take the place of well filled purses, while they endeavor to make their rooms look cheerful and cozy as possible with the least expense.

My memory goes back lovingly to the bed room in a country house, where the bedding was fragrant with lavender, the curtains at the windows spotlessly clean and white, and the furniture carefully polished and kept free from dust. On the floor were braided rugs made of father's old coats and John's worn out pants, what was left of them. One which had been in use ever since I could remember, was made of listing obtained from the village tailor. Medium thick woolen cloth makes the smoothest braids, but heavier cloth and sometimes cotton goods may be used. After the braiding was done they were sewed on the under side, making the rug round or oval in shape. The stands may be of color or a combination of colors such as red and yellow, or blue and white.

A very pretty rug is made by cutting burlap in strips six inches wide. Ravel on either side to the depth of two inches, leaving a strip two inches wide in the middle. Double them in the middle and sew them around a piece of bed ticking cut the desired size and used for a foundation. Let each row overlap the one before it two inches. As the work may all be done on the machine, these rugs are quickly made. A beautiful rug seen recently was made of burlap which had been dyed several shades of green with diamond dye for cotton, the darkest shade being around the edge, shading to light green in the center. One made with a border of red burlap with the center in its usual color is pretty also.

Oilcloth mats may be made of old Brussels carpets. Cut it the size and shape you wish and tack it down to the attic floor, or any other floor not in general use. Paint in on the wrong side with good brown paint. Let it dry thoroughly, then add a coat of varnish. Let this dry a week or longer and it can be washed like oil cloth. When the paint begins to wear off, renew it and it will last four or five times as long as common oil cloth.

One of the handsomest floors I have ever seen was painted chocolate brown, with a large rug or drugged placed in the center. This rug was made of scraps of cloth of all colors, cut bias and gathered through the middle, using very coarse thread and lapping the ends of the strips instead of sewing them together. They should be kept just loose enough to twist up like a chenille cord. Of course it took a great many of the strings, but one was always kept in the work basket, and after a garment was made and the larger pieces put together, those that are too small to be used in any other way were gathered on instead of throwing them in the fire. After the strings were finished, they were tied together, rolled into balls and sent to a weaver, who furnished the chain and wove it like a rag carpet. Three widths were sewed together for the drugged.

Small rugs are made in the same way. The center may be made hit or miss with a plain border of contrasting colors. This does not resemble rag carpet in the least for the chain sinks into the cloth leaving a smooth, soft surface like Smyrna rugs. Fine knit goods, the tops of stockings, flannels or other woolen goods worn too much for other use work nicely in this way. If the material is faded as it is likely to be, it may be dyed any color desired with diamond dyes and beautiful rugs may be made of it. So if you cannot afford the new carpet you wanted, the floor may be made presentable at the expense only of patience and good taste.

Clara Hammond.

The importation of potatoes from Europe has been unusually large this year, and the New York Sun says that about four-fifths of those which reach New York for consumption for the past few weeks have been of foreign growth. They come from Scotland, Ireland and Belgium. It chronicles the arrival within a short time of one cargo of 90,000 bushels, another of 60,000 barrels, and a third expected a day or two later with 30,000 bushels. Not for eight years past have many been brought from Europe, but this year the crop was light here, and unusually good in those countries.

For the land's sake use Bowker's Fertilizers. They enrich the earth.

For the Sewing Room.

Written for Green's Fruit Grower.

The economical woman will save all linings and trimmings, as they help out wonderfully sometimes when making a new garment, and if more consideration were given to the saving of little things quite a considerable sum of money might be saved annually. A bottle of benzine is of inestimable value in the sewing room, as it will help to clean and freshen gloves, felt hats, jackets and woolen garments of all kinds. A white or light colored felt hat can be cleaned by soaking over night in the benzine, and kid gloves should be washed and rinsed in the benzine as if using water.

In the first place, mend any ripped places, using fine cotton; and a glove mender should be found on every toilet table. Benzine is good for removing any kind of grease spots from woolen goods and does not change the color, but if a jacket or garment is much soiled it is better to clean it by rubbing all over with a cloth moistened with the benzine. Velvets and velvet ribbons that have become creased can be brightened and freshened by holding over a pan of boiling water and having some one to brush up the nap with a stiff brush. There is nothing better for cleansing woolen fabrics than warm soap suds made with soft water and good white soap, but each piece should be thoroughly brushed and cleaned before it is put in the suds for washing. After washing black goods rinse in very blue water, and black alpaca is washed as serge or other black goods, only to the last rinsing water add a little gum arabic. Many of the delicate colored flannel and cashmere waists become soiled or faded while they are too good to discard, and it is commendable economy to re-use an article so long as it can be made serviceable. If they cannot be washed satisfactorily in cold soap suds they can be colored any darker shade by dipping in diamond dye for wool and this is also a good way to renovate a rusty black woolen dress skirt, as it can be recolored a jet black, but the goods must be very carefully pressed or it will not have the fresh new appearance so much desired. If there is any difficulty in getting the seams in the sleeves properly pressed, pin a cloth over the broom handle and slip in the sleeve and the seams can be pressed smooth with very little trouble.-Aline.

"Do you know what they call hash at our boarding house?" "No; what?" "The substance of things hoped for, the evidence of things not seen."—Washington "Times."

"I see you are reading the dictionary. Do you find it interesting?" "No; more amusing than interesting. It spells words so different from the way I spell them."—Judge.

Willie: "Pa, this paper says: 'Beef makes brawn, and fish makes brains.' Why do fish make brains?" Pa: "Probably because they travel in schools; now away and play."—Philadelphia Press.

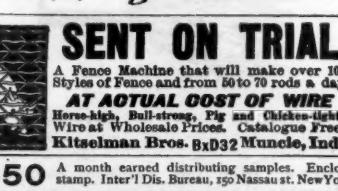
"Now, Johnny," said the Sunday school teacher, "you may tell us what a prophet is." "Why," replied Johnny "it's a fellow that's always lookin' for a chance to say 'I told you so.'"—Philadelphia Press.

Stylish Lady Visitor (to small boy, while waiting for hostess to come down): "What is the matter with Fido, that you are watching him so closely?" Small Boy: "Mamma said that your hat was enough to make a dog laugh, and I wanted to see him do it."—Tit-Bits.

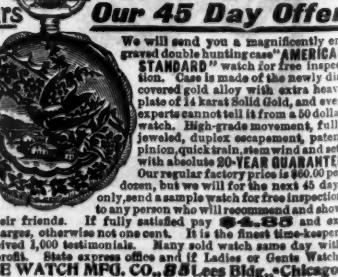
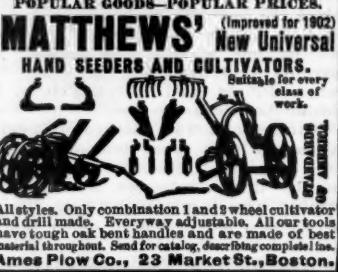
Caller: "And are your paper and mamma going to take you to Europe with them when they go?" Tommy: "Yes'm." Caller: "And aren't you afraid?" Tommy: "No'm. I ain't afraid of nothin'. I've been vaccinated."—Catholic Standard and Times.

"This," said the proud young wife as she passed the plate to her trusting husband, "is White Mountain cake." The deluded man made several attempts to bite it. "What do you think of it, dear?" she asked. "Well," he said with a feeble smile, "it is very realistic."—Judge.

Oscar D. Cole writes Green's Fruit Grower as follows: I feed my poultry cooked horse meat. I dress the animal as clean as possible, cut it up and boil until tender, then cut it in slices and run it through a large sausage cutter; then I boil potatoes in the water where I cooked the meat, mash the potatoes, and mix wheat bran middlings and corn meal all together, and feed warm in the morning. I am careful not to feed a diseased horse, but rather one that is killed on account of old age or through an accident. The bones may be cut up with a bone cutter and fed in the usual manner.



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VAN DEMAN PAPERS

PRINCIPLES OF TRANSPLANTING.

One of our correspondents has lately raised a question about the theory of shortening roots and tops at transplanting. We do a great many things the true philosophy of which we could not give and this may be one of them. No doubt we all have ideas on the subject and perhaps correct ones in many respects. It may be that something more of importance in our work can be brought out by a discussion of this subject. I make no pretensions to a complete understanding of it, but I think we all should have reasons for what we do and be able to give them.

Now a theory is worth nothing that is not borne out by facts. Indeed, a true theory is generally a deduction drawn from a series of facts. In any case the theory and the facts must correspond.

We will, perhaps, all agree that a tree or plant growing where the seed was planted does not need its roots cut or changed in any way to enable it to attain its best development but we will doubtless disagree about the matter of cutting the branches in different degrees and after different styles, which we call pruning, and some would not cut them at all. The evident purpose of the tree or plant is to make wood and to propagate or reproduce its species. When we bring these same things under culture we generally have different purposes in view than those which are strictly natural, such as the production of large fruit, or excessive development of flower root, or leaf. Therefore, we may need to divert or oppose nature in several directions or degrees.

In carrying out our ideas we are almost sure to need to transplant the greater part of those things which we cultivate, and to be able to do this in the quickest and most successful way is one of the very desirable things to know. Different trees and plants will require different treatment, but there are certain principles that are quite generally applicable.

When a tree or plant of any kind is taken up a part of its roots are almost surely cut or torn away. They generally extend much farther than we imagine.

The feeding roots are mostly on the extremities, and are called root hairs and spongioles. They are so delicate that they can rarely be removed from the soil and replanted in a new place with safety.

The absorbing of all the water used by the entire tree or plant, to the tip of the farthest branch, is done by these little organs. If they are not present or are seriously injured growth cannot proceed until they are restored. Nature alone can restore them, and this ability must lie within the plant. If it does not, then, death is sure to follow.

Most trees and herbs, too, have the faculty of storing plant food in their roots and in many cases in their tops as well, for their future use. This plant food we often use as food for ourselves, as in the cases of turnips, beets, potatoes, onions, cabbages and many other vegetables. It is done to some extent by nature in the twigs and buds of trees and shrubs.

Animals find good food in many such things, and birds sometimes feed upon buds in winter time. The storehouses of nature are drawn upon for the growth of flowers and seeds very largely, and also for general growth. This can be seen by setting cuttings of various kinds of trees in moist soil, and then observing their behavior. I once set a lot of cuttings of hickory, oak, maple and many others that I know would not strike root, just to see what they would do. The kinds having large buds were the first to start,

WHAT THEN HAPPENED?

and some of them made shoots and leaves of considerable size, but all died for lack of roots to sustain them. The growth was the result of the food and vital force stored in the buds and wood. A cutting that will grow is one that has the peculiar ability to strike roots easily, and thus get food and water from the soil to maintain the growth begun by the parts above ground.

Young trees or plants of any kind have a considerable degree of these vital elements within their structures, and when they are transplanted there must be the proper conditions for their development or success cannot follow. These requirements are variable, of course, but, warmth, moisture, aerated soil, and available plant food are essential in all cases, in some degree. They have the ability to force growth of both root and branches if given anything like proper opportunity. As a large part of the vital force lies in those parts of young plants nearest the collar, as all who have closely observed them have doubtless noticed, it is plain that therein

also lies our best opportunities for causing their future development. This is true, whether it be young annual plants grown from seeds, such as those of the tomato, cabbage, beet, celery, petunia, pansy, etc., or those of the strawberry, raspberry, grape, apple, peach and all others of a woody nature. From these parts we can get the most vigorous growth while the plants are young but not when they are old, except in rare cases.

From the above statements of facts it is easy to understand why we have found it to be true in our practice that it is beneficial to cut away the more delicate and less vigorous parts of both root and top when we transplant. If we cut them back to where the vital forces are greatest we will get the quickest and most vigorous response to our efforts to induce new growth. Nature will immediately begin the process of the re-establishment of the natural functions of the plant by sending out new rootlets and new shoots and leaves, provided the proper conditions of temperature and moisture exist. But, if these conditions are not present then the results will be proportionately unfavorable.

FOR INSTANCE,

if the ends of the roots, where the growth should normally begin, are so deep in the ground that the soil is not warm enough to start growth quickly, then the plants may fall either partially or entirely. We occasionally see trees that have been planted so deeply that they dwindle and sometimes die. In some cases the roots die, partly from lack of sufficient air in the soil, as, where earth is filled in deeply about large trees.

When all the conditions of soil, temperature, climate and plant food are favorable it is better to cut back both top and root before planting, especially if the trees or plants are small. This is the basis of the Stringfellow method of planting, as I understand it. I have tested this plan repeatedly with trees as well as with tender plants, during the last forty years. It works very well under proper conditions but not unless they are just right. In my opinion, that is why it is more applicable in the Southern states, where the climate is milder than in the North, where it is more severe and changeable and the soil more compact.

In cutting back the tops the main benefit is from lessening evaporation. It is, perhaps, generally well understood that the leaves and other parts of a plant that are above ground evaporate great quantities of water in the growing season, and an appreciable but much smaller portion in the dormant season. This water must be supplied by the roots from that stored in the earth. Until the roots are well established we should endeavor to make this draft as light as possible by lessening the evaporating surface.

These statements and explanations comprise the elementary principles of transplanting, as I understand them, and if they are lucid enough to transmit a knowledge of them to others, who, like myself, are seeking knowledge, then, have my efforts been sufficiently rewarded.

Floral Notes.

All bulbs coming into flower should have a great deal of water, says Woman's Farm Journal. Bring your hyacinths from the cellar when you wish them to bloom. All plants should be turned about frequently so that the sun can get at all sides of them. Old-fashioned gardens, with their snow drops, daffodils, hyacinths, tulips, peonies, sweet herbs and climbing rose bushes, are again in favor. Plant one now.

As soon as hyacinth bulbs have made roots plentifully, they should be brought out to the light, unless it is desired to retard them. Not much leaf growth will take place in the dark. Care should be exercised at this season of the year not to over-water your plants, as vegetation is inclined to be at a standstill. It is better to keep the roots partially dry while in this resting condition. Sprinkling the foliage of plants three or four times daily will be found beneficial. A pretty decoration for a room can be made with a sponge and some grass or other seeds. Fill the sponge with the seeds, and place it in a glass dish, then pour in sufficient water to keep the sponge moist, and in a short time the seeds will begin to take root, and cover the sponge with a green foliage. The sponge should be kept well moistened. Some people are not aware that flowers will keep fresh much longer if the stems are set in a dish of sand than if they are plunged simply into water.

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Best spring, summer, fall and winter lettuce ever offered. Fancy, but grows quick, and so tender.

50 Brilliant Flowers
from 1000 to 1500 flowers, and will produce a magnificent display of flowers. Their beauty is beyond description; cost hundreds of dollars to collect the colors.

My Souvenir Catalogue is filled with bargains, selected plates photographic reproductions, premium offers, and plans worth dollars to anyone who sends 50 cents. If I will mail a trial packet each of Wonder Tomato, Sure Crop Cabbage, Picnic Lettuce, 50 Brilliant Flowers and Catalogue for only 25¢ and addresses of three friends who buy seeds or plants. Send to day.

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Please mention Green's Fruit Grower.

RURAL TOPICS

A farmer traveling with his load Picked up a horseshoe on the road, And nailed it fast to his barn door, That luck might down upon him pour; That every blessing known in life Might crown his homestead and his wife, And never any kind of harm Descend upon his growing farm.

James T. Fields—The Lucky Horseshoe.

"Ef you're goin' to get a thing,"
Daddy often used to say,
"Never give yourself a rest
Till you get the very best,
Or the best that comes your way.
Ruther have a plagued sight
Less and have what I have right,
Than to have a lot o' stuff
Only 'fair' or 'good enough.'
I maintain time and again:
First class stuff fer first class men!"

This is a very favorable time of the year to visit the orchards in the vicinity of your home where you can best judge of the true value of the different varieties of fruits, especially the late maturing and long keeping kinds, says Farmer's Tribune. Invite a neighbor who is interested in fruit growing to go with you; visit as many as you can while making the day's drive. Keep your eyes open that you may catch on to as many practical object lessons as possible. Do not hesitate to ask all the questions you can think of when you find a really successful orchardist; learn the secrets of his success and how to apply them. Study the location, soil and other natural advantages; then his methods of protection, planting, arrangement, etc., etc., all of which may save you many of the common failures that discourage the amateur fruit grower.

A farm without an orchard, vineyard, berry patch and garden, ample for the purpose for which they are intended, is like a wilderness surrounded by a desert, says Denver Field and Farm. In other words, it is not a good place to live at. How many farmers, who have these things, or some of them, have a family supply after the fruit is out of season? There are facilities at hand these days which leave no excuse in such cases for not having those wholesome luxuries every day in the year and every year, whether "fruit hits" or not. The process of canning in glass is so simple and cheap that only lack of home enterprise can prevent having at all times on hand an extra year's supply, thus providing for any possible contingency.

So far as imports go in the year 1900, England imported 2,128,477 hundred weight of apples of the value of £1,222,665. Of oranges and lemons we take no note, as their importation does not directly affect our cultivators; but we paid the foreigner £308,395 for cherries, £595,000 for grapes, £366,871 for pear and £392,696 for plums. Taking fruits of all kinds, including bananas, the total value imported in 1900 was £6,481,562, or \$32,000,000.

In the whole of Great Britain 73,780 acres are devoted to small fruit culture, and 232,129 acres to that of orchards. Kent is very far ahead of all other countries as regards the culture of small fruit, no fewer than 22,466 acres in this county being allotted to these crops.

Kieffer pears have always been a bone of contention in the Ohio society, and eight members reported good sales at profitable prices; 50 cents a bushel was considered better for them than \$1.25 for Bartletts, but in Southern Ohio and Pittsburg one-third basket brought 75 cents, says L. B. Pierce in Country Gentleman. It was conceded that they should be kept on the tree as late as possible, and then be slowly ripened in a cool cellar in the dark. This makes them a November pear with little competition from any pears or other fruit except apples and Concord grapes.

If an orchardist should order three pear trees, one each of Bartlett, Bosc and Sheldon, he would be likely to condemn the Bosc, while perfectly satisfied with the other two, says Field and Farm. The Bosc might be equally as fine for a Bosc as the Bartlett or Sheldon is for its kind. The same difference exists in varieties of apple trees. The Ben Davis, Jonathan and many other varieties might be large, straight, thrifty and very fine, while the Grimes Golden and Fameuse grown in the same soil and with the same care would be small, crooked and inferior-looking, yet might be first class for these trees. Trees do

not all grow alike any more than different breeds of cattle.

During 1901 Chicago live stock market received in round numbers 3,069,700 cattle, 183,600 calves, 9,015,000 hogs, 4,102,500 sheep and 110,000 horses, or a total of 16,480,000 animals, in 303,900 cars, showing an increase of 340,700 cattle, 47,300 calves, 320,900 hogs, 553,600 sheep, 11,000 horses and 18,500 cars over 1900.

The use of well-rotted manure, plowed under when preparing the land for plants, gives the best results in many cases. Especially is this the case when a dry growing season occurs, the plants being able at once to obtain available plant-food, growing without a check and making runners early in the season. In many soils the manure adds the needed humus.

Green or half-rotted manure is more often an injury than a benefit, because of the many weed seeds it contains. Many strawberry beds are practically ruined by the weeds introduced by the use of such manure.

Perhaps the better method of using manure is to apply it rather heavily to the crop grown on the land the year before strawberries are planted, following that crop with a cover crop to be turned up in the spring before setting plants. —L. H. Bailey.

The amount of carbonic acid gas given off by a few plants is so small that one hundred plants in a room would not give as much as one man during a night, and they make many volumes of oxygen during the day more than sufficient to compensate for their presence. Rooms in which plants are kept have, moreover, a fresh odor about them, owing to the fact that they absorb nitrogen, and it is this in part that makes a room stuffy, because nitrogen occurs in most of the secretions emanating from man or animals.

Among certain people there is a strong idea that nothing is worse for dogs than salt, but as a matter of fact, when administered in small quantities, it materially assists the process of digestion, says London Mail. There is no doubt, however, that to give dogs or any other animals broth or pot-liquor in which salt pork or bacon has been boiled would be almost equivalent to giving them a small dose of poison. The use of salt among horses, cattle and sheep is advocated by the highest veterinary authorities. Pigs, on the contrary, are extremely susceptible to the poisonous influence of the agent, and experiments have been made which had, after small doses regularly administered, fatal results. Habitually, as a matter of course, all animals consume a certain portion of salt, as it exists in certain proportions in most articles of food.

If the cream is too thick it should be thinned before the churn starts. Butter flavor is a thing largely determined by the feeding of the cow. Linseed meal is a good butter producer, but wheat bran is rather cheaper. Ice cold water is certain aid in diminishing the flow of milk from a cow.

"Set out trees, adorn the home grounds, make it pleasant all around, with the elms, the oaks and maples let the evergreens abound; make the home so pleasant that the boy with you today, when he has arrived at manhood and in foreign lands does stray, will turn with longing heart and loving to the home among the trees, which he helped to plant in boyhood; longing there to take his ease. Set out trees, yet plant an orchard; dear, good people do you know of the wealth there is in fruit trees for the labor you bestow? How the apples turn to money, with the peaches, plums and pears, and the luscious, ripe red cherries, all the fruit the orchard bears. Little children love the fruit trees, clad in robes of pink and white, never flowers half so pretty, never such profusion known."

Little Clarence—Pa, when Lot's wife was turned to salt what did he do?

Mr. Callipers—Began to look for a fresh one, I presume.—Smart Set.

"Judge not! The workings of his brain And of his heart thou canst not see. What seems to thy dull eyes a stain In God's pure sight may only be A scar—brought from some well known field Where thou wouldest only faint and yield. Judge not!"

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Please mention Green's Fruit Grower.

Crude Petroleum for Trees.

Crude petroleum has not been recognized as an insecticide, as theory and supposition had led us to believe that it would act even more violently upon plants than kerosene distilled from it. A New Jersey man decided to experiment cautiously at first and a scale infested Duchess pear tree was selected. The tree was so badly affected with the pernicious scale that it was not expected to live even had no application of crude oil been made. The oil was spread on freely to give the maximum effect—every twig being painted and the trunk coated clear down to the ground. It was coated in January. April 4th it blossomed freely and on May 10th it had a fine crop of fruit. By the middle of June it was one of the finest of its kind on the place, foliage vigorous and of a good color, fruit well set and not a scale to be seen. The change was a wonderful one and had the oil not been applied the tree would probably have been killed by the scales. The year previous it had been a worthless tree, covered with layer upon layer of scales and the fruit unsightly and unsalable. It came out a clean, vigorous, healthy tree bearing perfect fruit. Since then nearly 4,000 trees of all kinds of orchard fruits other than cherry have been treated with crude petroleum, either at full strength or diluted with from sixty to seventy-five per cent. of water. Trees varied in age from nursery stock to old trees in full bearing. Not a case of injury to trees treated in winter has been observed. In several cases the oil seemed to act as a stimulant, the treated trees showing greater vigor and better foliage than the untreated ones. There was no injury to fruit buds, but petroleum is not suited to summer application as it has a choking effect upon the leaves. Its persistence makes it more valuable than kerosene for winter application, as kerosene must act at once or not at all. It does not evaporate readily, is penetrating and if applied to only half a branch it will generally spread over the other half of its own accord. It will soak through masses of scale as nothing else will. Thus we conclude: Crude petroleum, applied as a winter insecticide with a brush or spray pump is harmless to the most tender trees and is a remedy for the San Jose scale. Although the water will soon evaporate from diluted oil and leave a coating of pure oil, a better application can be made by applying it in a diluted form or as an emulsion. Better results will be obtained from one gallon of twenty-five per cent. emulsion than from one quart of pure oil. A summer application is safe on the trunk but would be disastrous to the branches and foliage.—Denver Field and Farm.

A lava sea 200,000 square miles in extent and upward of 4,000 feet deep is not usually thought of as forming a part of the United States, yet nearly the whole of Washington, Oregon, and a large part of Idaho were once overrun by such a sea of molten rock, the widespread remains of which form most of their surface to-day. Into the ancient lava beds the rivers have cut profound canons several thousand feet deep, some of which, notably that of the Snake, even rival the Grand canon of the Colorado, except in brilliancy of rock coloring.

Where to Buy Farm Trucks.

Of course you ought to have a low-down, broad-tire, flat-platform, short-turning farm truck, and you ought to have one that possesses all these features. There is but one such truck and the Farmers' Handy Wagon Co., of Saginaw, Mich., own the patents for it. Have you ever seen their catalogue?



You ought to send for one at once. They are free. We tell you all about "arm trucks." You will find up in Saginaw were the first who ever built trucks for farmers. Theirs are the only

once used by the U. S. Government war they built 50 solid wheeled farm trucks per day for our Uncle Sam. They build trucks for nearly every civilized country on the globe. These are the reasons why they can build trucks cheaper and better than anyone else. Then, too, they can ship a farmer any kind of a truck he needs, for they build all kinds of them. They also have patents there are on farm trucks. They guarantee their patented wood wheels for five years, while it is impossible for you to make longer than for



to get a guarantee on any other one year. Well! I can't stop here to tell you all the reasons why these Michigan people are in better position to supply you with what you want, but if you will just send your name on a postal card to the Farmers' Handy Wagon Co., Saginaw, Mich., they will gladly send you full information. This will cost you only one cent and may bring you information that will be valuable to you. P. S. I forgot to say that these same people can supply you with metal wheels for your old wagons.

Little Things.

'Tis such a little thing to do To give a loving kiss or two To husband, at the door But you'll be happier all the day, And work will almost seem but play— Tho' it never did before.
'Tis such a little thing to do— To press her in your strong arms, too— Ye husbands everywhere! And you will all the happier be; For all day long her face you'll see By your love, freed from care.
'Tis such a little thing to do, To say, "Goodbye," and "I love you!"— When parting for the day. But all day long your hearts, I know, With joy and love will overflow, And bright will grow the way. Nellie Hawks in Twentieth Century Farmer.

R. Morrill on Peach Pruning.

I would trim severely any peach tree; I would trim it for symmetry and to throw the balance of power with the root; I would trim it because I get better fruit; I would trim it because it is a method of thinning the peaches, says R. Morrill, in Country Gentleman. I would thin the fruit of a good crop, because the formation of seed is a draft on the tree and devitalizes it. It cannot mature a large crop of pits, but it can mature a large crop of peaches. If it is compelled to mature a large crop of pits, it is in a state of semi-exhaustion, and next year perhaps you will hear of the June drought. A tree carefully cultivated, fertilized, thinned and trimmed, never suffers from June drought, and it will add from five to eight degrees to the ability of the tree to stand cold weather, and that frequently makes the difference between an immense profit after a hard, trying winter and nothing.

A tree taken from the nursery should be handled just as carefully as a cabbage plant, should be moved to the orchard with the least possible exposure, and carefully set. In nine cases out of ten, where a tree gives poor results, the fault can be traced back to careless handling before planting.

In this climate, or the climate south of here, I would prune any time in the winter, but I want to tell you one thing—the pruning of the tree hastens the development of the blossom every spring a little quicker, and that puts us up against a difficult proposition in the South. With us we wait until after the 10th of March. Within probably the last twenty years our last severe blizzard has come within five days on either side of the 10th of March, and after that is over, we go right out, get all the help we can and get it done before the buds start, if possible, and I presume that would apply in Southern Illinois as well.

Corsican or German Seedling Strawberry.

This variety came from Germany about eight years ago, and was controlled by a few berry growers for three or four years. I regard this variety as the largest and most profitable strawberry grown as they are perfect in form; their shape is similar to the Gandy, and color all over when ripe; flavor similar to the Triumph de Grand and excellent for table use, and hold out in size to the last pickings. When other berries are selling on the market for 8 to 10 cents this variety will sell for 12 to 15 cents per qt. Then why grow small berries as it costs as much to grow them and more to get them picked? From ten to twelve berries of this variety will make a quart. I shipped them to Philadelphia arriving there in good condition. This variety has a perfect flower and is a vigorous growing vine; the fruit stalks are immense, the berries standing well up from the ground.

At a low estimate, an acre of this variety well grown will bring from five to six hundred dollars when berries are selling at a fair price.

Have you a mortgage in your farm? Then I advise you to set an acre or more of this variety and you will acknowledge that they are a mortgage lifter. I could say much more in favor of this variety as half has never been told. Now if you have any doubts with reference to this berry, come and see them in bearing. They are medium to late.—William Lewis.

To speak of one's self is as difficult as walking on the tight rope. One requires such wonderful balance and so much circumspection not to fall in so doing.—Mrs. Sidney Lear.

All which happens through the whole world happens through hope. No husbandman would sow a grain of corn if he did not hope it would spring up and bring forth the ear. How much more we are helped on by hope in the way of eternal life!—Martin Luther.

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No. 6 Iron Age Cultivator Double and Single Wheel Hoe Hill and Drill Seeder
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Woman's Home Companion, Springfield, Ohio.

Easily the leader of all the high-class household publications. It has 40 to 50 pages each issue, and in the twelve issues carries more than 1,000 pictures. Its departments are the best, and its special features are unexcelled. In short, it is the biggest, brightest and best illustrated home journal published anywhere for one dollar a year. Among the contributors for 1902 are Cyrus Townsend Brady, Hamlin Garland, Henry C. Fuller, Edgar Fawcett, Mrs. Stephen Crane, and many other popular writers.

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This illustrated magazine is now in its fifty-second volume. It is one of the great modern monthlies. Its program for the coming year embraces features second to none in other periodical, while its illustrations will continue to be the highest expressions of magazine art. Monthly, \$1.00.

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Subscribers of GREEN'S FRUIT GROWER who may desire some other periodical in connection with it are offered the following to select from. The figures in the first column show the regular price of FRUIT GROWER and the publication named. Those in the second column show the price at which the publication named and the FRUIT GROWER will both be sent for one year. At these figures you can get many of the publications named at a third less than the regular subscription price. When more than one publication besides the FRUIT GROWER is wanted, send list of papers wanted and we will furnish the price for the same. We cannot send sample copies of any paper except our own. Requests for others must be sent direct to the office of the paper wanted.

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They will mail, entirely without cost, their Beautiful 1902 Art Calendar, artistically illustrating the most "Popular American Actresses and Their Favorite Flower," specially painted for them by Miss Maud Stumm, of New York, the famous American water-colorist; size, 12½ x 10 inches, in three sheets, tied with silk ribbon, lithographed in 12 colors, on heavy pebble plate paper; and the DOUBLE 25TH ANNIVERSARY NUMBER for November, 168 pages; every page illustrated, and the SUPER CHRISTMAS ISSUE (both these special numbers beautifully illustrated in colors) with each subscription for the year 1902 and Green's Fruit Grower, all for \$1.00.

Enclose bank draft on New York, P. O. order or express money order, and your order will be filled. Individual checks not taken. GREEN'S FRUIT GROWER, Rochester, N. Y.

A Boy Gambler's Experience.

Written for Green's Fruit Grower.

A friend of mine who is now over eighty years old related to me last evening the following experience:

When I was a small boy serving an apprenticeship in a jewelry store, a circus came to Rochester, N. Y., which I desired to attend but I had in my pocket only ten cents which was not enough to admit me. I wandered about the grounds where the monstrous tent for the show was erected, grieved with the thought that I was to be deprived of the pleasure of entering owing to the lack of money. At last I noticed a man well-known in our city, a professional gambler, who was running a wheel gaudily painted which revolved upon a table, on which were painted various numbers. I saw many people placing money upon one of the figures on the table, and when the wheel was revolved the winner was announced, the lucky person taking all the money that had been placed upon the table. I had never gambled but I was in a desperate mood, therefore, after some hesitation I placed my dime between two ciphers. Imagine my joy when I found I had won \$6.00. I grasped the money firmly in my hand and started away.

"Hold on there boy," called out the gambler, "come back and try your luck again."

No, I replied, I have won enough for to-day.

With the money won at gambling I bought a ticket for the show, indulged in a glass of red lemonade, a package of peanuts, some gaudy colored sticks of candy, spending in similar ways nearly \$3.00 of my ill-gotten gain. My acquaintances soon learned that I was spending money more freely than usual, and the news finally reached the ears of my employer, who approached me and asked,

"Where did you get the money you are spending?"

I got it honestly, I replied rather equivocally.

"Where did you get it?"

I did not steal it.

I ask you to tell me this moment where and how you got the money you have been spending on these grounds."

Seeing that evasion was no longer possible, I made a clean breast of my transaction with the gambler. Inquiring how much money I had left, my employer demanded that I return at once to the gambler and pay back every penny that I had left. This I did to the astonishment of the gambler, returning \$3.00 of the amount I had won.

Not long after this event this noted gambler was thoroughly converted. He made a bonfire in the public street of the gambling outfit, joined the church, and thereafter led a new life. One day twenty years later, when I had established a jewelry business of my own, I met on the cars near Albany the former gambler of whom I had won \$6.00. He was now a changed man and had been elected to the state Legislature. I took a seat by his side, told him I was from Rochester, N. Y., and began to relate my gambling experience with him twenty years before, when he rose up exclaiming,

"My God, are you that boy! I have been looking for you for many years. I remember the circumstance well. I shall not forget it to the day of my death. Your returning that money to me changed the entire course of my life, and was the cause of my conversion."

Since then I have not gambled even to the extent of a dime.

In pruning a light open head is desired. The first season's growth should not be shortened too much, but the second season all the strongest branches may be liberally shortened, leaving the side branches to spread so as to make a broad low head. In case it seems best not to cut a leader entirely away, never cut back to a dormant bud, but always to some side branches; these will slowly take on growth and fruiting strength and check the upward tendency of growth that is sure to follow the cutting back of a strong peach limb to a dormant bud. Not much attention need be paid the side branches; they will never make leaders, and in the author's opinion it is a mistake to do so. A tree pruned as here suggested should give three-fourths of its fruit near enough to the ground so that it can be gathered without a ladder.

Sense and beauty, like truth and novelty, are rarely combined.

A wise man speaks well of his friends, and of his enemies he speaks not at all.

Much of man's unhappiness is due to his getting what he expects, but doesn't want.

There is a vast difference between second thoughts and second-hand thoughts.

\$1,000.00 IN CASH PRIZES!

OPEN TO THE WORLD.

A Farming Test in Corn and Potatoes.



Epitomist Prize White Dent.



Epitomist Prize White Dent No. 2.



Epitomist Prize Yellow Dent.

PHOTOGRAPHS TAKEN FROM NATURE AND ACTUAL SIZE OF SPECIMENS OF CORN GROWN AT EPITOMIST EXPERIMENT STATION, IN DROUGHT-STRICKEN REGION, SEASON 1901.

136 CASH PRIZES

for Largest Yields made from ONE QUART of either variety of White Dent, or Yellow Dent Corn, and from ONE POUND of Potatoes. Each Amounting to

\$500.00.

First Prize.....	\$125.00
2nd ".....	75.00
3rd ".....	50.00
4th ".....	25.00
5th ".....	15.00
6th ".....	10.00
10 Prizes \$5 each.....	50.00
10 ".....	30.00
10 ".....	20.00
100 ".....	100.00

Prize White Dent Corn the past season. Booklet and sample copy of the Agricultural Epitomist mailed free to any address for the asking. FOR 70 CENTS every one gets Corn or Potatoes and one year's subscription to the AGRICULTURAL EPITOMIST, the Only Agricultural Paper edited and printed on the farm, and a cash prize if successful in making one of the largest yields. Blanks and full particulars for reporting yields in competition for prizes will accompany each quart of corn and each pound of potatoes. Every farmer and gardener knows what the price of seed corn and potatoes is, so it is hardly necessary to say that we are not selling seed corn and potatoes, but practically giving them away to subscribers of the EPITOMIST for the purpose of introducing seed that we know to be unexcelled, and to encourage more thorough cultivation.

Epitomist Prize White Dent Corn is a variety of remarkable characteristics. The length of the ears is from ten to twelve inches; the circumference is seven and a half inches and sometimes more; the cob is small and completely covered with grain, the grain will average a half inch in depth and same in width, and is unusually thick; the weight of grain and cob average something over a pound, and there is over ninety per cent of grain. The EPITOMIST PRIZE WHITE DENT is an early variety that will mature anywhere within the corn belt, and to those who appreciate the value of corn fodder, it recommends itself, as it produces a luxuriant growth of stalk, many of which in our fields were 15 feet high. It is certainly the best variety of corn that ever grown or seen grown, and there is every indication that it contains an unusual percentage of protein, and the higher the percentage of protein the more valuable the corn. It made the past season, in nearly every state in the United States and Canada, some of the largest yields of any of the different varieties of corn and proved itself to be A Remarkable Drought Register. A Quart, with careful cultivation, will grow more than enough to plant 200 acres.

Epitomist Prize White Dent No. 2 is a most wonderful variety of corn. It has an exceedingly large, wide and deep flinty grain; is very transparent, showing that it has very little bran. Cob is unusually small. This corn weighed heavier than any other variety grown at the Epitomist Experiment Station the past season. From two to three good ears grow to the stalk, and has from eight to twelve rows on the ear, sometimes more according to the strength of the land. It makes a very sweet bread meal, and is relished by all stock and is very desirable for feeding. Stalks are well filled with broad blades and grow to great height, making it a perfect ensilage and fodder corn. It is especially adapted for southern climates and is not recommended for planting north of the Mason-Dixon line.

Epitomist Prize Yellow Dent is a variety of corn which cannot be excelled anywhere in this country. 1901 was its second year. It was originally hybridized and hybridized by Samuel Ray, of Illinois, commonly known as "Uncle Sam." The ears are from nine to fourteen inches in length, grain deep, broad and thick and set close and firmly together. The cob is red and very small, has very little chaff, ears are covered with a very thin husk and the stalks grow from six to eight feet in height and stand very erect. Eighty pounds of ear corn has shelled seventy-two pounds of choice, deep orange colored grain. This corn, which was grown for the first time at the Epitomist Experiment Station this season, is not a Hack Corn but a Pure Dent Corn, and the propagation was by Selection and Restriction. Epitomist readers who prefer a Yellow Dent corn to a White Dent must not fail to secure some of this corn which we do not hesitate to recommend for any climate where corn will grow.

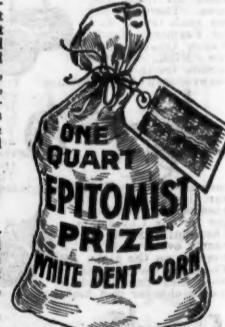
Epitomist Prize Potatoes. This is a most desirable variety, being of exceedingly strong growth, a heavy yielder and excellent keeper. It is a late potato and the best shipping variety in cultivation. Vines are very vigorous, blight and insect proof, stands erect and tubers lie closely together in hill, thus allowing for close planting, and thorough cultivation. The foliage being deep green and very abundant makes them a great heat and drought resister. As will be noticed from photograph of potato, the tubers are oval, thick and round, holding thickness well to ends, eyes shallow. The skin is pure white, thin, but firm and tough. Flesh, pure white, dry and mealy, and has a most delicious flavor. Altogether it is a most desirable, and a general purpose variety and one that we have no hesitancy in recommending for planting anywhere, as it has proved to succeed under the most trying and varied circumstances. An ordinary potato could not have withstood the drouth that this one did at the Epitomist Experiment Station the past season. One pound of potatoes will grow enough seed to give everyone a good start for next season.

THE EPITOMIST EXPERIMENT STATION

is without doubt the most beautiful spot in the State of Indiana. Over \$100,000 has been spent in improvements on this Experiment Farm, where the Agricultural Epitomist is edited and printed amid the activities of real farm life. Its beauty of scenery and perfect climate, with its pure spring waters are hard to surpass in any locality. We have at this Experiment Farm of 650 acres all the different soils found in Indiana or in almost any other state, as well as the varied conditions requiring drainage.

OUR OFFER. Our experiments embrace all lines of Agriculture, Horticulture, Live Stock, Dairying, and Poultry Raising, and as the growing of these three varieties of Corn and one variety of Potatoes, which we have named EPITOMIST PRIZE, is the result of our second season's work and most successful experiments, we are not only going to give Epitomist readers some of the seed to raise, but \$1000 in prizes, for the largest yields made therefrom, the same to be awarded as described above. Every subscriber to the Epitomist is entitled to participate in contest. All one is required to do in order to enter any one of the above contests, is to remit 70 cents—50 cent for the Agricultural Epitomist one year and 20 cents to pay for postage, packing, etc., for either variety of Corn or the Potatoes. No Corn or Potatoes will be supplied to anyone not a subscriber to the Agricultural Epitomist, and paid one year in advance, and then only one quart of corn or one pound of potatoes. However, every subscriber will have the opportunity of securing a quart of each of the three varieties of corn and one pound of potatoes: First by subscribing themselves and securing one variety; then with every new subscription at 50 cents (or 70 cents with one variety of corn or potatoes) a quart of corn or one pound of potatoes will be delivered absolutely free, postage prepaid, to the one securing the new subscription. When you send in your own subscription we will then send you booklet, described in this offer, which will give full particulars for securing new subscriptions, and for entering the two contests for cash prizes, as well as particulars for competing for supplementary prizes. With every quart of corn we will send a booklet containing description of cultivation and fertilization pursued by the 107 prize winners in last season's contest, which alone is worth several times 70 cents to any corn grower.

ADDRESS ALL ORDERS AND MAKE ALL REMITTANCES PAYABLE TO
**Agricultural Epitomist, Epitomist Experiment Station,
SPENCER, INDIANA.**



Correspondence

A WORD FOR ASPARAGUS.

Editor of Green's Fruit Grower—Asparagus may be served in so many different ways, that it may be used every day during its season in some form, and always be a desirable addition to the meal.

The tender parts may be tied together in bunches and boiled, seasoned with salt and pepper with a little drawn butter, (some like vinegar added just as it goes to the table). Then it may be boiled as above and just before it is ready to serve add a tablespoonful of flour and the same of butter stirred together and one teaspoonful of milk with pepper and salt to taste. Have ready some squares of well toasted bread over which turn the sauce placing the asparagus on top in bunches.

From the parts of the asparagus not tender enough to be used in this way, and which may be saved, if kept in a cool place for a day or two; may be made a soup which is very nourishing and palatable. After boiling the tough pieces until very tender strain and season to taste; thicken with a well beaten egg and a little flour, or if preferred, with a cup of bread or cracker crumbs. Then again we may serve as green peas cutting the tender parts of the asparagus into pieces the size of peas and serving the same way. Many with whom peas disagree can eat the asparagus with impunity. The medicinal properties of asparagus should not be overlooked. It is used to induce perspiration, also as a diuretic.

A tea made from the roots is also strongly recommended for dropsy. In any way we are pleased to use the asparagus, it acts gently upon the kidneys and is much to be preferred to drugs commonly used for that purpose.

Then why not cultivate and use more asparagus? It can be used for at least three months of the year if kept regularly cut, and is less trouble than almost any other vegetable.

We would not be without our asparagus bed for many times the cost of placing it in our garden.—S. K. M.

In a recent issue of Green's Fruit Grower the editor in answer to an inquiry said, "Yes, I would prefer to live after death. It is not pleasant to anticipate annihilation." I would like to ask if it is not more pleasant not to anticipate death at all, but to desire to live forever? Replying to which our editor says, "No, that he would not desire to live forever. He is certain he would become tired of the monotony of life, its trials and obligations after a few hundred or a thousand years of life, and he knows there would not be room on this earth for the people if they should all live forever. Therefore he knows that perpetual life is impossible." Our correspondent says: "I speak from experience, for I have died once and I don't want to die again. God showed me that the reign of death was over. He raised me up once more to live and no more to die. He showed me that death is not a friend but an enemy. Christ came not to bring death upon the earth but life. The Bible says, 'God has wiped away all tears from their eyes and there shall be no more death, neither sorrow nor crying, nor pain, for the former things have passed away.' When

the crows were covered and there is who appre-est variety in the more corn and Stalks are recommended

was origi-nine to with a very orange col- the prop-which we

new discovery, odore-less and tasteless, which any lady can give in tea, coffee or food. It does its work so quickly and surely that while the devoted wife, sister or daughter looks on, the drunkard is reclaimed even against his will and without his knowledge or co-operation. Send name and address to Dr. J. W. Haines, 216 Glenn Bldg., Cincinnati, O., and he will mail enough of the remedy free to show how it is used in tea, coffee or food.

Mrs. Harry Burnside says "With Golden Senna my husband of drinking, I put it into his coffee and after that he couldn't drink liquor or bear to be around where it was."

WEAK EYES MADE STRONG
Sight Restored at Small Expense

Dr. W. O. Coffee, the Des Moines, Iowa, oculist, has discovered remedies that not only prevent blindness in every case when used in time, but restore sight to those partially or completely blind from cataracts, granulated lids, scabs, opacities, film, etc., that have been removed by surgery. He has published a splendid book with colored photographs from life illustrating all eye diseases, so you can see your own case. It tells how you can cure yourself at home by his Absorption Treatment at small expense. Dr. Coffee will send this book gratis to all who are afflicted with eye trouble and write him. Ask for "Eye Book." Address DR. W. O. COFFEE, 861 Good Block, Des Moines, Ia.

men awake to the fact that they have a right to live forever, and understand the question it will be easy and natural for them to exercise faith and overcome mortality."

Robert B. Nye writes Green's Fruit Grower that he is familiar with rattlesnakes, knows their habits and peculiarities, and that he is convinced that they do not lay eggs, or that their young is not produced from eggs, as has recently been stated. He says he will give a \$5 gold piece for a rattlesnake's egg with a rattlesnake in it.

P. D. Kaiser, M. D., of New Mahoning, Pa., writes Green's Fruit Grower as follows: We are told that the time is soon coming when winter apples such as Ben Davis can hardly be sold, and that there must be grown a finer and superior quality of apple. It is not generally known that varieties of superior quality have almost all originated in Canada, New York, Massachusetts, New Jersey, Pennsylvania, and Ohio. Outside of this territory but few dessert apples have originated. Southern apples lack size and flavor. None of the Russian apples are of superior quality. I would like to learn about the New York Somerset apple of fine quality ripening in October. Can any of your readers tell me about that variety?

Samuel Schierenk, writes Green's Fruit Grower in regard to the complaint of our readers, where water ran out of the limbs after they had been cut off. His opinion is that branches of trees cut off on damp or rainy days do not heal so readily as those cut on sun shiny or dry days, and that if cut on rainy days they are liable to act as do those complained of. All this is entirely new to the editor of Green's Fruit Grower.

Mr. C. Burbank writes Green's Fruit Grower from the state of Washington as follows: Many of the most desirable varieties of apples as grown in New York state are a failure in far Western locality. Baldwin, Greening, Northern Spy, etc., do not succeed here, since our climate is too warm. Yet we have the best fruit valley on earth and the best market for fruit. Our market extends to Chicago on the East and Puget Sound on the West. Our valley carried away the gold medal from the Pan-American exposition. We have the finest climate on earth. We have one inch of snow up to date, the coldest weather 18° above zero. We have cut four crops of alfalfa, the yield being eight tons to the acre. I have seen 95 tons of alfalfa cut from 9 1/4 acres. We raise all kinds of tender fruits such as grapes, apricots, almonds, etc., the altitude is 700 feet above the level of the sea. Black Ben Davis, Y. N. Pippin, Jonathan and Spitzemberg are our leading apples. We pack apples in 50-pound boxes selling at \$1.50 per box.

S. H. Warren, of Massachusetts, asks Green's Fruit Grower whether A. M. Cole's experiments by irrigating land through deep trenches or ditches was successful. Our editor was deputized years ago by the New York Tribune to visit A. M. Cole's place at Wellsville, N. Y., and investigate his system. There was several acres of land on the side hill all deeply trenched by zigzag ditches descending from the top of the land to the lowest corner. In these ditches tiles were placed and in these tiles water was running a large portion of the year. High culture was given and remarkable results were shown in the way of crops of strawberries, raspberries, grapes and other garden vegetables, etc. It is my opinion however, that it would not pay in this country to invest so much labor in trenches or ditches when good land that will produce good fruit crops can be bought at such low prices, without demanding expenditure of large sums of money for ditching or irrigation. I estimate that Mr. Cole had spent at least \$200 per acre for his ditches.

John S. Roberts, of Indiana, asks Green's Fruit Grower how he can enrich and build up his light sandy soil without the use of stable manure. The field contains ten acres that never has had a load of manure. In reply I will say that such soil needs humus, therefore needs barnyard manure particularly, since such manure adds humus and commercial fertilizers do not. But since he cannot get barnyard manure, I advise that he sow buckwheat, plowing it under when it has reached its full growth; then sow rye and let it stand over the winter, plowing it under in June, then buckwheat again, or some other green crop, continually plowing under green crops, which add humus. In connection with green crops, sowing and plowing under, he can apply commercial fertilizers composed of potash and dissolved bone at the rate of



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The BEST, CHEAPEST and MOST EFFECTIVE device for spraying Gardens, Orchards, Lawns, Stables, Chicken Houses, etc. Continuous pumping. Completely automatic. No parts to break or get out of order. Nozzles, stop cocks and all fittings which come in contact with insecticide solutions are solid brass. The AUTO-SPRAY cannot rust, corrode or leak.

The Auto-Spray Torch is one of our prominent attachments. It is the only torch which really kills worms, etc. It burns kerosene vaporized with oxygen and a single blast will destroy a nest of caterpillars. Ask Your Dealer for the Auto-Spray Torch. It is the best and easiest way to spray. Write us if you want agency. E. C. BROWN & CO., Dept. 3, ROCHESTER, N. Y.

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You Should Buy "The Hardie" Spray Pump in Preference
to One of Any Other Make.**

Every pump we make is supplied with our strainer and agitator. Strainer is on side of extreme end of suction pipe. The agitator rod moves the agitator up and down in front of the strainer every time the pump handle is worked. See cuts. This insures thorough mixing and prevents burning or scalding of plants, vines, etc., from heavy deposits of poison. It is an invaluable feature in painting and whitewashing. "The Hardie" is the only pump that requires no wrench to get at the valves. The stroke may be instantly adjusted to any desired length, by simply changing a pin in the handle. Our brass plunger is the most simple, durable and serviceable on any pump. "The Hardie" is a large capacity pump. The pump here shown is our No. 7. When this pump is worked at the rate of 30 strokes per minute it will reduce to fine spray 187 gallons of liquid per hour. All the "Hardie's" easily maintain a pressure of 100 pounds with two nozzles open. Think about these things and then send for our free catalog.

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The Perfection Sprayer is not the product of a theorist. Making sprayers has been his chief employment for the last twelve years. He has examined and experimented with and made more large capacity, power sprayers than any other man in the U. S. The Perfection six row is his final triumph. Sprays six rows of vines and vines at once. Can be used either by hand or horse power. Easily adjusted for vegetables, shrubs or trees. Sprays Bordeaux and all other mixtures without trouble or waste. Full descriptive catalogue sent free. Ask for it.

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Also manufactures the Improved Eigg's Plow and Furrower

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Map and description of Washington (Folder.)

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DISTILLED WATER saves lives—prevents fevers, sickness, epidemics, doctor bills, suffering and old age. Has cured thousands of chronic cases. Don't fail to write for NEW PLAN and OFFER. Write us anyway—for Catalogue, Testimonials, etc. Address, FREE HARRISON MANUF'G CO., 567 Harrison Building, CINCINNATI, OHIO.

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**HOW TO QUIT TOBACCO.**

A new discovery odorless and tasteless, that Ladies can give in coffee or any kind of food quickly curing the patient without his knowledge. Anyone can have a free trial package by addressing Rogers Drug & Chemical Co., 2835 Fifth and Race Sts., Cincinnati, Ohio, and easily drive foul tobacco smoke and dirty spittoons from the home.

Men Wanted \$20 A DAY

is what one new man has just made. Another has sold and delivered 600 machines and has nearly 100 more sold for later delivery. This new style Sprayer has "Kant-Klog" nozzle and sells like hot cakes. We want some one to sell them in your locality at once. Sprays trees, potatoes, vegetables, etc. Washes wagons, windows and has many other uses. Write for circulars telling how to get.

ONE SPRAYER FREE.

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No need to lug barrels of water around to kill insects in your trees and vines. Use the poison direct. Our **COMMON SENSE DUST SPRAYER** and Insect Exterminator is a most ingenious device that is rapidly becoming a household word. It blows the finely powdered dust into every nook and cranny. Reach the bottoms as well as the tops of leaves. Destroy all sorts of insects on plants, vines, shrubs and trees. Just as effective for vermin on poultry and pigs, and in yards, pens, etc. Works much more rapidly than spraying. Box holds enough powder to dust 30 trees, 8 to 10 years old. Descriptive circulars and testimonial of people who use it sent free.

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**SECRETS OF FRUIT GROWING.**

C. A. Green has been photographing orchards, vineyards, berry fields, etc., and has collected over 100 photographs in a new book with helpful suggestions to fruit growers, instructing the reader in the secrets of fruit growing. It is unlike anything published, illustrating and describing methods of planting and growing trees, etc. Something every fruit grower should have. The price is 25c., but we will accept 10c. if you will mention this paper. Our new fruit catalogue will be sent in the same package. Address,

GREEN'S NURSERY CO., Rochester, N.Y.

Correspondence Continued.

3, 5, or 10 hundred pounds to the acre, as he may deem best. It might be best to apply a small amount at one time, giving it another dressing of commercial fertilizer at another time, rather than to apply all at once. It is no easy job to build up such poor sandy soil as this, which has been badly worn out, but it can be done. I have had five car loads of stable manure shipped to apply on a portion of a little farm of twenty acres that I have recently bought, which is somewhat run down, but not in the very poor condition mentioned by Mr. Roberts.

N. A. Caldwell asks how the boilers are arranged on ocean steamships and ships of war. Do the boilers lie flat or do they stand upright? I once crossed the ocean in a large steamship and a number of our party went into the hold, where it was very hot and stuffy, to see the engines and machinery, but I did not make that visit of exploration. It is my opinion that the boilers are not upright but that they lie horizontally. There are many boilers and many engines on the largest ships, they have great capacity and burn coal by the thousand tons on each voyage.

GIVE THE BOYS A CHANCE.

Mrs. S. C. J. says in a letter to Green's Fruit Grower, that farm hands are becoming scarce. The query is, what has become of the young men who in former years used to remain in the country satisfied with working upon the farm for monthly wages? She used to find plenty of boys who were in want of a home. She thinks some of these boys, for technical reasons are sent to truant schools, where they are corrupted by evil associates and are never heard of again in the country. She does not think that reformatories reform these boys. She holds that there is no place so safe for boys as the free air and green fields of the farm.

Reply: It has long been and ever will be a leading question, what shall we do with truant or ungovernable boys or for that matter ungovernable men? Thus far the answer has been, lock them up in some reformatory or prison for a season. This has seemed to be the only thing to do, since these wild boys or men disturb the peace of well behaved people. It is true that confinement or imprisonment does not often reform these men or boys. Undoubtedly the best thing fathers and mothers can do for their children is to permit them to inherit a good moral character, as our friend P. C. Reynolds, remarked many years ago. If they inherit such a good character they will not be inclined to wickedness. But there is another reason why laborers are scarce in the country. Farmers use more machinery than formerly and employ less men by the season (of eight months) or by the year than in old times. Farmers now want men only for a few weeks in harvest or haying. No man can afford to loaf around for so little work. We employ men for eight months and many by the year, and can get all the help we require.—Editor G. F. G.

THE RAILROAD WORM.

Editor of Green's Fruit Grower:
Please tell your readers how to conquer the railroad worm that destroys all the apples.—D. A. Kneeland, Vt.

Reply by Professor M. V. Slingerland, of Cornell University: The apple maggot or "railroad worm" is fast becoming a more serious menace to apple growing in New England and New York, than that standard pest—the codling moth. One can greatly lessen the numbers of "wormy" apples with a poison spray, but the apple maggot is beyond the reach of any kind of a spray. The only valuable point in the life of this pest seems to be the fact that none of the maggots ever leave the apples until they either drop off as "windfalls" or are picked in the autumn. This gives us a chance to either pick up the "windfalls" every day or two and feed them out, or allow hogs or sheep to run in orchards, in grass. This destruction of the "windfalls" is the most promising and effective method yet suggested for checking the pest. Recent experiments in Rhode Island indicate that if infested orchards are plowed as deeply as possible in the spring and then cultivated during the season, that the numbers of the flies will be reduced.

Timothy Wheeler, of Vermont, gives Green's Fruit Grower the result of his experiments. He painted a small maple tree with paint, composed of white lead and oil, from the ground to the lower limbs, when the tree was in full leaf. In twelve days every leaf was dead and would crumble in his hand. This should

warn fruit growers to be careful about applying any oily substance to the bark of fruit trees, and yet crude petroleum oil in the form of a fine spray has been applied to all kinds of fruit trees successfully in destroying the scale, but it must be applied early in the spring before any leaf growth begins. He says that butter, sugar and fat have no fertilizing value. He has found that the richer the soil the less seed oats should be sown, and that oats fall down or lodge owing to the reason that the soil is rich and oats are sown too thickly. If the soil will not stand two bushel of oats sow only 11-12 bushel of seed per acre. A neighbor once sowed one bushel of oats per acre and his crop yielded one-hundred bushels per acre, but the soil was very rich.

He says the extension of the roots of trees depends upon circumstances. He was once building a road through a pasture, at the foot of a hill, near a swale. He found to his astonishment, a large live root an inch in diameter, though there was no tree nearer this damp spot than the top of the hill, where stood an ash tree. The distance from the tree to the root I found was 50 feet. How did the trees know where was moist ground in the valley below? It sent only one root down for this moisture; elms, butternuts and willows will send roots long distances for water.

Arthur J. Reed, writes Green's Fruit Grower that he often hears it expressed that fruit growing may be overdone, since there are many orchards being planted in different parts of the country. But he says we must consider that the demand for fruit is rapidly increasing and that new markets are being opened in thousands of localities throughout every state, also that there is a vast amount of territory where fruit cannot be grown successfully. His opinion is, that all who plant orchards, do not make a success of orcharding, and this affects the amount of fruit produced. He considers the outlook for the future good for the fruit grower, who has a liking for the work and a thorough knowledge of fruit growing; adopting such means as will produce first-class specimens.

Bernard R. Abel asks for information about soil analysis. Our experiment stations at Geneva and Ithaca, N. Y., can do this work but whether they would or not I cannot say. They could not afford to do this work without charge but whether they would charge \$5 or \$10 I could not say. Soil analysis does not amount to very much, since there are many soils that from analysis would appear to be very fertile which would produce poor crops, since the fertility might not be available for various reasons. If the soil was wet and needed under-draining, or if it was hard clay and needed to be pulverized, the soil might be very rich and still produce poor crops.

I am not an authority on geese but know that they require large territories, the larger the better.—Editor Green's Fruit Grower.

In reply to George Dupree, Brockton, Mass., I will say that the time to bud an apple, pear, plum, cherry or quince is usually in July and August. The season for budding varies in different sections several weeks, according to the weather. If the early part of the season is dry, we sometimes have to wait until later rains arrive before the bark will open and bud nicely. There is no use in trying to bud when the bark will not part freely from the wood. Unless the bark is full of sap and parts freely from the wood the bud will not succeed. In budding small nursery stock sometimes the wood is too full of sap to bud successfully. It requires considerable experience to know just the date to commence budding where you have 200,000 to 1,000,000 stocks to bud.—Editor G. F. G.

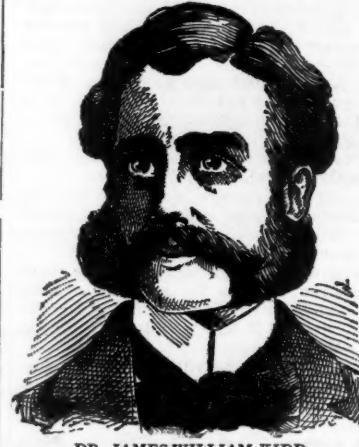
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The Thanksgiving Prune.

Prof. L. H. Bailey of Cornell University says that this prune is certainly the longest keeper which he has ever seen. The weak point with most varieties of plums is that they will not keep, but decay quickly. Marketmen are discouraged in handling plums that rot quickly, hence the great advantage of Thanksgiving Prunes, which will keep for weeks in baskets as usually shipped and marketed. The editor of Green's Fruit Grower has eaten these prunes in January, and has kept them lying on his desk for two weeks in January, when he ate the rest of them, and there was no sign of rotting. The fact is, that Thanksgiving Prunes can be placed on shelves in an ordinary house, where they will remain without rotting until they are thoroughly evaporated like the dried prune of commerce; but this evaporation goes on slowly, therefore for many weeks the prune will be found juicy and delicious to eat. The quality of this prune is superior to most varieties, being sweet and rich. It is the large amount of sugar in this variety that preserves it so long. Thanksgiving Prune ripens about the first week in October at Rochester, N. Y. It has been named Thanksgiving Prune owing to the fact that N. B. Adams had the prunes in his house on Thanksgiving day in good eating condition. You will notice that this is one of the most remarkable prunes ever introduced. It has been thoroughly tested.

One two-year-old tree of this Prune will be given free with each order of \$10 or more, made up from this catalogue, at prices given herein, if ordered on or before March 15th. GREEN'S NURSERY CO., Rochester, N. Y.

What's the matter with you any how? Our hens won't lay, the butter won't come, and our girls can't cut their wisdom teeth properly without Green's Fruit Grower. My neighbors—C. F. Prescott and George A. Dockway—complain that their little children keep them awake nights crying because their January paper has not come.—E. W. Paine.

L. E. Rathburn asks information of Green's Fruit Grower and we reply as follows: Fresh apple juice may be bottled in the same manner that grape juice is bottled, or in the same way that fruits are canned I assume, though I have no personal experience along this line. How to trim grape vines would require a long article. In brief, leave from three to five canes nearly the full length, or sufficient to cover the trellis, and cut back the new growth to three buds. The number of canes left to cover the trellis depends greatly upon the number of vines, the age and variety. Usually too much wood is left upon the vines. Bushel boxes or even smaller boxes are desirable for shipping apples of superior quality to fancy markets where they bring a fancy price, but they would not pay for putting up ordinary grades of apples. Plainly speaking barrels are good packages for apples.

With us the best market strawberry is Corsican but fruit growers in other states have their particular favorite, therefore we cannot speak for all. Brandywine is firmer than Corsican, is later and an exceedingly valuable variety. Clyde strawberry is an enormous bearer, with very large berries of rather light red color; its greatest fault is softness, which is particularly notable after continued rains. Nearly all strawberry growers now grow strawberries in narrow matted rows, but the plants should not be too thickly matted in the rows. The ideal matted row would be where the plants are six inches apart. I do not know of any strawberry grower growing strawberries in hills, since the hill culture has been abandoned, except by some fancy gardeners who grow them in a small way.

John T. Screws writes Green's Fruit Grower that Alabama is well adapted to fruit growing, with plenty of desirable uplands, but the people of that state do not seem to be much interested in fruit growing, which he deplores. Our advice to him is to avoid the low lands in planting either large or small fruits. We give this advice to all as a result of our experience in New York state. Possibly, and very likely, there are localities where low lands may be better than uplands, particularly at the South, and Alabama is a Southern state, still if we were planting there we would select the uplands for the reason that they are naturally well drained if for no other reason. If compelled to plant on the low lands, I

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should drain them before planting, if they are in the least inclined to hold water. We cannot state how much fertilizer to use per acre since we know nothing of the conditions of the soil mentioned, but on such sandy land as is mentioned 500 pounds of the best grade phosphate would not be too much. This subscriber wishes to thank our contributor, P. C. Reynolds, for his helpful article in our January issue on "How Plants Grow."

Theodore Smith, of Whitman county, Washington, a subscriber to Green's Fruit Grower, writes as follows: I am a fruit and tree grower and came originally from Vermont. I spent twenty years after I was 21 in various Western states. In 1872 I settled in the state of Washington. I have been growing fruit and trees here ever since, and have never found the slightest difficulty in producing good trees, good fruit, also good vegetables and everything that a farm produces. This is as easy a soil to till as I have found anywhere and also the most productive. It needs no irrigation if properly cultivated. I am not troubled with insect pests except the codlin moth and sometimes the aphid. I have never known frost to injure fruit in blossom here except once, and then but slightly. Other sections where there are deep valleys may fare worse in this respect. I found the Antwerp raspberry growing here among the natives. It is a good berry but too soft. The Marlboro does well here, also the Cuthbert.

A. Hagerman, of Central New York, writes Green's Fruit Grower, as follows: I wish to call the attention of fruit growers to the profit that may be secured by growing bright red raspberries for market. Last year's crop of such berries in this locality was inadequate to meet the demand, and this condition has prevailed for several years. I refer to such varieties as Loudon, Cuthbert, and Marlboro, which sell in this market at 35 cents per pound; they can be grown at a profit at a lower price than this. If overripe red raspberries crush in handling, and are not salable at high prices, therefore they should be sold in pint cups and picked before they become soft. This makes it necessary to pick at least every other day. The dark red raspberries and black raspberries do not sell near so well in this market.

I would advise E. M. of Auburn, N. Y., to plant Abundance, Wickson, Burbank and Satsuma plums. These kinds will endure zero weather. H. E. Van Deman.

C. D. Cheney reports to Green's Fruit Grower his method of making a pit for rooting bulbs, etc., as follows: Cut a barrel in half, or better, leave the lower part taller, throwing the upper part away. Then made a frame about two feet square and ten inches deep of boards, and from the same material a cover a little larger than the frame; this cover should be rain proof. In a dry and protected corner of the garden I dug a hole and set this half barrel, filled to within six or eight inches of the top with surface soil, packing the earth firmly around it. Then the frame was set around the pit, and the earth was filled in and banked around it even with the top, making a slope to shed water. In this pit I have rooted hyacinths and freesias and have stored several bunches of celery and some celery plants successfully.

Slaked lime, or in fact any form burnt lime, simply loosens the potash and other ingredients in the soil. Apply it at the rate of 10 to 20 bushels per acre sown broadcast. Remember that slaked or fresh burned lime is not a fertilizer but that it acts upon the soil, liberating potash and other items of fertility that the soil already possesses. I do not advise applying lime to sandy soils, since sandy soils give out their fertility freely enough. But clayey soils do not liberate their fertility so freely therefore a dressing of from 10 to 20 bushels of air slaked lime spread broadcast over the soil, may have the effect of fertilizing the field, but do not give this same field a dressing of lime oftener than once in 5 or 10 years.

To Asa Child, Baldwinsville, Mass.—There are two serious diseases of red raspberries, one anthracnose, which is fatal and which occurs mostly on low wet land, in which case the bark splits open, and the canes look rough and ragged; the other disease is root gall. Dig up some of your diseased plants and if you find knots on the roots, the trouble is root gall. In either case I should plow up the plantation and plant a new one in a different locality, but possibly your plants are troubled with some other disease.—Editor.

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JAMES THOMAS, Esq., of the Board of Review, Bureau of Pensions, Washington, D. C., was cured after many physicians failed and he had given up all hope of recovery. NATHANIEL ANDERSON, Esq., of Greenwood, S. C., writes: Was a sufferer of Kidney and Bladder troubles, which caused two hemorrhages of the kidneys; had to urinate every few minutes; physicians told him his case was incurable, but was completely cured by Alkavil. ALVIN D. LANE, Auburn, Me., writes: Was cured of rheumatism, which was so severe as to cause him to use crutches. Hundreds of similar testimonials can be produced if desired. Many ladies, including Miss Viola Dearing, Petersburg, Ind., Mrs. E. R. Dinsmore, South Deerfield, Mass., also testify as to its wonderful curative powers in Kidney diseases and other disorders peculiar to women.

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EVERYBODY who markets strawberries, etc., should send for circular describing my new FRUIT CRATE. Pat. Sept. 24, '01. MARTIN KILIAN, Nappanee, Ind.

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CINCINNATI, OHIO.

"Where doth the snow-bird sleep?
The stormy winter's night comes on apace,
Thick falls the snow—knows it a sheltered
place.
Where it can snugly creep,
And, safe and warm, its dusty pinions fold?
Where doth He hide His snow-birds from
the cold?
All day the dark-winged flock
About my window hopping, chirping, come,
Asking of Tinyu a seed, a crumb,
From his abundant stock."

He had time to see the beauty
That the Lord spread all around;
He had time to hear the music
In the shells the children found;
He had time to keep repeating
As he bravely worked away,
"It is splendid to be living
In the splendid world to-day!"
But the crowds—the crowds that hurry
After golden prizes—said
That he never had succeeded—
When the clouds lay o'er his head,
He had "dreamed"—"He was a failure,"
they compassionately sighed,
For the man had little money in his pockets
when he died.
—Chicago Record-Herald.

A Cure for Crime.

A writer in The North American Review asserts that manual training is almost as good a preventive of crime as vaccination is of smallpox.

"What per cent. of the prisoners under your care have received any manual training, beyond some acquaintance with farming?" a Northern man asked the warden of a Southern penitentiary.

"Not 1 per cent.," replied the warden.
"Have you no mechanics in prison?"

"Only one mechanic; that is, one man who claims to be a house painter."

"Have you any shoemakers?" asked the visitor.

"Never had a shoemaker."
"Have you any tailors?"
"Never had a tailor."
"Any printers?"

"Never had a printer."
"And carpenters?"

"Never had a man in this prison that could draw a straight line."

"Here, poor man, is a penny."

"Thank you, mum; I'll always number you among my closest friends."—Indianapolis "News."

Maude—Gaskell thinks he is a regular lady killer.

Esther—I shouldn't wonder. I had to talk with him last evening, and I really thought I should die, he wearied me so.—Boston Transcript.

Magistrate—What is your vocation—I mean what do you do for a living?

"Ah, yessir, yessir; I understands yer now, sir. What I does for a livin' is, my wife takes in washin'."—Baltimore Jewish Comment.

"What is incredible to thee, thou shalt not, at thy soul's peril, pretend to believe! Elsewhere for a refuge or die here.

Go to perdition if thou must, but not with a lie in thy mouth,—by the Eternal Maker, No!"—Thomas Carlyle.

According to statistics the United States now has 5 per cent. of the population of the world and twenty per cent. of its wealth. If we can keep up that percentage, when we have one-fourth of all the population we shall have all the wealth.

Definition is the soul of accuracy.—Rev. E. A. Culley.

Virtue alone raises us above fears and chances.—Seneca.

Circumstances alter us less than we think. If we are of a gay temperament—gay we shall be through all. If somber, no happiness can drive that somberness away.—H. S. Merriman.

We can use postage stamps in payment for subscriptions to Green's Fruit Grower. Where convenient send one-cent postage stamps.

NP NURSERY PARTNER WANTED! Land to Rent (team and tools furnished), for what it will produce over \$600 per acre, at Palma Soles, Manatee Co., Fla. Don't write without capital.—I. M. DEPEW. Also, at Gainesville, Ga., have a suburban Vineyard to rent at \$300 or sell at \$3,000.

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DELAWARE.—No drouths, cyclones, floods, or crop failures. Near city markets and salt water. Profitable investments in Farm Homes, large or small, at reasonable prices. Delightful, healthy climate, grand water, excellent schools, churches and society. Booklet free. Address, E. PACKARD, Box 256, Dover, Del.

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The Combination Oil Cure for Cancer and Tumors cures more cases than all other agencies combined. It has the endorsement of Doctors, Lawyers, and Ministers who have been cured, as well as hundreds outside the professions. It is soothing and balmy, safe and sure, and the only successful remedy known to Medical Science. Originated and perfected after 30 years of patient, scientific study. Those afflicted, or who have friends afflicted should write at once for free books giving particulars and indisputable evidence. Address Dr. D. M. By Co., Lock Box 325, Indianapolis, Ind.

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Is the latest, and it drops
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Being from Missouri needs to be shown. Can we show its gilt edge testimonials to you. Ask introducer.

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I am out of debt, thanks to the Dish-washer business. In the past three months I have made \$600.00 selling Dish-washers. I never saw anything sell so easily. Every family needs a Dish-washer and will buy one when shown how beautifully it will wash and dry the family dishes in two minutes. I sell from my own house. Each Dish-washer sold brings me many orders. The dishes are washed without wetting the hands. That is why ladies want the Dish-washer. I give my experience for the benefit of any one who may wish to make money easy. I buy my Dish-washers from the Mount City Dish-washer Co., St. Louis, Mo. Write them for particulars. They will start you in business in your own home.

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WE OFFER Any Farmer 50 packets of seeds (the selection) from our growing on his farm for 20 years. Premiums, including sales, etc. Offer (or she) will first sell 60 packages for us at no cost. No Money in advance. Write to us by return of mail to us, or write postally and we will sell 60 packages to be sold for us.—Fruit Tickets, Premium List and full information.

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10,000 Prizes and Premiums Offered.

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Send for our catalogues, and get the best. Good Quality. Seed Oaks, Spots, Barley, Rape, Clover and Turnips, Vegetables, and Forest Seeds, etc. Greenman's Seed Catalogue Free.

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We offer a superior quality of grafting wax in packages of one half-pound, or one pound, by mail, post-paid, at

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By express we can sell this grafting wax at \$5c per pound. Remember that postage costs us 1c per pound. Address

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NEW ADVERTISEMENTS.

ROSE COMB White and Brown Leghorns, 15 eggs, \$1.00; 39, \$2.00. Rouen Duck eggs, \$1.00 per 15. Mullberry Poultry Farm, Poneto, Ind.

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WHITE ROCKS—Hens, score 93 to 96%; six pens; six males, score 95 to 96; no other stock, all sold; eggs, \$3; three setting, \$7; catalogue free. Dr. J. H. Boyer, Frankfort, Ind.

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SINGLE COMB White Leghorns, bred for business and beauty, pen head by Cock second at Boston; also fine White Wyandotte, Buff Rocks, Blue Andalusians, Colored Muscovy Ducks. Eggs, \$1.25—\$2.00, Duck, \$1—\$1. L. Burton Osborne, Greene, N. Y.

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INSERT YOUR NAME in our Poultry Directory and receive sample poultry papers, catalogues, etc., every day. Only ten cents silver. Poultry Directory Co., Goshen, Ind.

BREEDING STOCK now ready. Barred Plymouth Rocks exclusively; don't inbreed and weaken your stock. Cockerels \$1.50, Pullet \$1.00. Chas. L. Hydon, Morristown, N. Y.

SECRETS OF THE NURSERY BUSINESS AND HINTS TO FRUIT GROWERS, is the title of a new publication, illustrated with hundreds of photographs of nurseries, orchards, and berry fields, printed on elegant paper. Sent by mail, post paid, for 10 cents. Address, Charles A. Green, Rochester, N. Y.

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The grape so much desired is at last produced. A vigorous, healthy, prolific, handsome, extra early, of best quality. An extra fine shipper that will sell at the highest price in any market. Cluster and berry above medium, clear bright red, the earliest of all grapes, and equal in quality with the Delaware. It endures 25 degrees below zero in Kentucky and produced a fine crop. Bound to lead

Black Ben Davis "King of the Orchard" Entirely Different from Gano

Major Frank Holsinger writes us under date of Dec. 30, 1901: "I promised you yesterday to do you justice in the matter of **Black Ben vs. Gano**. As I told you, at first I thought them identical, but in a latter examination concluded differently. . . . I feel positive now, with what evidence I have, that they are different. . . ."—Frank Holsinger.

If others who have been spreading the report that Black Ben Davis and Gano are the same, were as careful to **investigate** and as **honest to admit** their mistake as Maj. Holsinger many planters would be saved the disappointment of planting Gano with the idea of getting the same or as good an apple as Black Ben Davis. Gano is a good apple, but **Black Ben Davis is SUPERIOR in size, color and keeping qualities.**

Champion: Next to Black Ben Davis, the most valuable of all market apples—good grower, young bearer, good color—much better keeper than Ben Davis, and a great drouth resister, having stood last summer better than any other sort. **Delicious, Senator, Apple of Commerce, Jonathan and Grimes Golden** complete the list of **MARKET and QUALITY KINGS.** Our stock of 1 and 2-year old apple trees is the largest in the U. S., and **quality is unsurpassed.**

PEAR, Standard: Leading sorts, including Fame, Alamo, Ozark, Kieffer, Lincoln (true Lincoln of Ill.), Garber, Bartlett, etc. **Dwarf:** Duchess, Anjou, Howell, Fame, Bartlett, and others—extra fine trees.

PLUM: A full stock of all the **BEST** varieties, including Burbank's Climax, Sultan, Shiro, America. Gold is still **increasing** in popularity—we have most excellent reports from all over the U. S.; should be in every orchard.

CHERRY: One of the **SUREST** crops that can be grown, and one that always brings good returns. First-class trees of such varieties as Dyehouse, E'y Richmond, Montmorency (true), Eng. Morello, Suda, etc., will be scarce for spring; orders should be placed at once.

GRAPE---An Immense Stock of Superb Quality

For many years it has been the policy of Stark Nurseries to supply its customers with the best of everything that can be grown. Recognizing the indisputable fact that the **best** vines in the country are grown in the state of N. Y., we secured acreage at Portland, Chautauqua Co., in the heart of the famous Fredonia district and established our Grape Nursery. The result was highly satisfactory to us and will be more so to our customers who plant the vines; for finer, thrif-

ter, healthier stock was never grown; and as vines can be grown in New York cheaper than elsewhere, owing to perfect stand and ease of cultivation, we are able to reduce prices materially.

We PAY FREIGHT on Orders of \$12 and Over, Box and Pack Free, Guarantee Safe Arrival, GUARANTEE SATISFACTION. Write for Stark Fruit Book, Price List, etc.—free upon request.

STARK BRO'S NURSERIES & ORCHARDS Co Louisiana. Missouri.

ELBERTA PEACH

We still have a fair supply of this most valuable of all peaches. Our stock of Elberta alone was more than 2,000,000 trees and by turning down orders from other nurseries we maintained our supply for planters' trade. We must admit that we have no surplus, and those who wish to plant the coming spring must place their orders early or be disappointed. The stock is strictly first-class in every particular.

PEACH, of all varieties, very **scarce** thruout the U. S., and nurserymen who have sold their small stocks and are unable to procure more, are advising planters to wait until next year. But we have a stock in keeping with Elberta and are **still prepared to supply planters** with all the standard varieties, notwithstanding the enormous trade of last fall from the Southern States. No need of waiting until next year to plant peach orchards—a year's time lost is never regained.

APRICOT: Sunrise and Superb, the only two varieties worth planting east of the Rocky Mountains. Also American Seedlings, from which some good sorts should come; these are worthy of trial.

SMALL FRUITS: Leading sorts for home use and market—London Market Currant, Houghton Gooseberry and Cumberland Raspberry are sorts that should be **largely planted**. Lucretia Dewberry is the best **payer**.

SHADE AND ORNAMENTAL TREES, Shrubs, Roses, etc. Bechtel's Dbl.-flowered Wild Crab Apple is unsurpassed for hedges. Of iron clad hardiness.

BUDDED LILACS: Superb Sorts, both Single and Double; colors are pure white, light and dark blue, light and dark purple, purplish red, rosy red, satiny rose, etc. The beautiful old fashioned lilac is far surpassed in beauty and size of truss by these improved sorts. Every flower garden, every door yard, should have them. **Perfectly hardy.**

ROOT GRAFTS of Apple of all leading sorts, and Kieffer and Garber Pear. Whole-root grafts in stock; piece root **made to order**. Special low prices quoted on large lots of Root Grafts, Seedlings and Stocks.

SEEDLINGS, STOCKS and CUTTINGS: Apple (5 grades or sizes), Imported Pear, Kieffer Pear, Mahaeb Cherry, Anjers Quince and Mariana Plum Cuttings.

We are ready to meet all competition in both quality of stock and **low prices**. Large orders for vines of nearly all varieties grown by us can be shipped from either Portland, N. Y., or Louisiana, Mo.; small assorted orders will be filled from Louisiana, but with the fine N. Y. grown vines—we having discontinued growing grape elsewhere. Leading varieties are Moore's Early, Diamond, Niagara, Worden, Concord, Brighton, Delaware, etc., all sorts of **established** val-

ue in all markets. For the home vineyard we grow the sorts of finest quality; in fact, our list embraces **the best** for all purposes, covering the entire season from early to late.



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